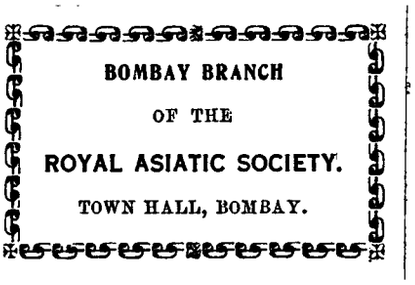
Forest Department
Madras Presy, report
1885-86 & 1886-87

00134080



Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020

ANNUAL

ADMINISTRATION REPORTS

OF

THE FOREST DEPARTMENT

(SOUTHERN AND NORTHERN CIRCLES),

MADRAS PRESIDENCY,

FOR THE 134080

OFFICIAL YEAR

1885-86.

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY
1886-S

MADRAS:
PRINTED BY R. HILL, AT THE GOVERNMENT PRESS.

1887.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE SOUTHERN CIRCLE, MADRAS,

FOR THE YEAR 1885-86.

By Lieut.-Colonel I. CAMPBELL WALKER, staff corps.

CONSERVATOR OF FORESTS.

CHAPTER I.

Introductory Remarks.

The Conservator visited all the districts in his Circle, except Tanjore, during the year, the inspection tours having commenced early in July and continued until the close of the year.

The most important forests inspected in each district were :—

Chingleput.—The blocks under settlement in the Tiruvallúr taluk, the Kámbákam reserved forest, and the Pulrambákam reserved land.

North Arcot.—The Javádi hills, the Ammerdi plantation, and the Chittoor reserved lands.

South Arcot.—Chengam and the Javádi hills.

Salem.—The district was twice visited, viz., in July and January, but little forest inspection was done as the District Forest Officer was busy with settlement.

Trichinopoly.—The Pachaimalais.

Coimbatore (North).—Fuel and fodder reserves.

Coimbatore (South).—Shôlakarai and the Ánaimalais.

Madura.—The Lower and Upper Palnis, and the Alagarmalai reserved forest.

Tinnevelly.—Ghât forests of the Northern range (3 taluks).

Malabar (Wynaad and Pálghat).—The Wynaad sub-division and Wálayár.

Malabar (Nilambúr).—The Teak plantations and forests, and Kallai depôt.

South Canara.—The Poitaji and Káyarpallé reserved forests ; the tracts selected for reservation, &c.

2. During his tours, the Conservator endeavoured to make himself accessible to the people, heard any representations they had to make with regard to forest matters, reassured them generally as to the objects of Government in constituting reserved forests, and explained that they would not be deprived of reasonable privileges, &c., even though such were legally rejected as rights by the Forest Settlement Officers.

3 All the District Forest offices except Tanjore were inspected during the year, in accordance with paragraph 187 of the Departmental Code, and results communicated to the Collector and the Examiner of Forest Accounts.

4. The time spent in camp by the District Forest Officers during the year is reported as follows:—

District.	Name of Officer in charge.	Number of days spent in camp.
Chingleput	T. Muhammad Ali Sahib Báhdúr ...	139
North Arcot	Mr. T. Sheffield	139
South Arcot	„ H. L. Wooldridge	201 *
Salem	„ J. W. Cherry	194
Trichinopoly	„ A. W. C. Stanbrough	110 †
Coimbatore (North) ...	„ A. W. Peet (173 days)	84
	„ W. C. Hayne (162 days)	62
Coimbatore (South) ...	„ H. J. A. Porter	217
Madura	„ H. A. Gass	250 ‡
Tinnevelly	„ C. E. Brasier	182
Malabar — Wynaad and Pálghat ...	„ R. W. Morgan	249
Malabar — Nilambúr ...	„ G. Hadfield	81 §
South Canara	„ T. P. Peake	158

All the officers travelled sufficiently, the average stay in camp being about six months.

CHAPTER II.

Areas and Boundaries.

5. *Areas.*—The addition of 264,165 acres (equal to 412·76 square miles) to reserved forests, and of 1,415,626 acres (equal to 2,211·91 square miles) to reserved lands, and the transfer of 469,325 acres (equal to 733·32 square miles) from forests regarded as reserves prior to Act V of 1882, and of 19,139 acres (equal to 29·90 square miles) from "unreserved" or "other forests" represent the changes in the areas at the disposal of the department in this Circle during 1885-86.

6. *Reserved Forests.*—The increase in the areas of reserved forests occurs in the following districts:—

District.	Particulars of Increase.				
	By transfer from forests regarded as reserves prior to Act V of 1882.	By transfer from reserved lands.	From other sources.	Total.	
	ACRES.	ACRES.	ACRES.	ACRES.	SQ. MILES.
Chingleput	17,565	..	..	17,565	27·45
North Arcot	87,348	..	799	88,147	137·73
South Arcot	1,760	..	..	1,760	2·75
Coimbatore (North)	....	..	12,800	12,800	20·
Coimbatore (South)	....	47,679	..	47,679	74·50
Madura	11,521	5,956	..	17,477	27·30
Malabar — Wynaad and Pálghat ..	75,802	..	..	75,802	118·44
Malabar — Nilambúr	1,860	..	1,075	2,935	4·59
Total ..	195,856	53,635	14,674	264,165	412·76

Acres 1,760 in South Arcot, 11,520 in Madura, and 2,935 in Malabar (Nilambúr), or 16,215 acres in all, were constituted under section 25 of the Forest Act, and the remainder, viz., 247,950 acres, under section 16.

7. The following table shows the progress made in the constitution of reserved forests in the Southern Circle since the introduction of the Forest Act. The small proportion which the area of reserved forests bears to the district areas rebuts any

* Including the inspection of Shiyáli taluk, Tanjore.
† Absent on privilege leave (medical certificate), two months, from 21st July.
‡ Includes stay on the Palnis during hot weather.
§ Was out almost daily supervising the different operations which are within a radius of about 8 miles of head-quarters.

charge of over-reservation, but, of course, except perhaps in Coimbatore (South), we have not yet completed our selections :—

District.	Extent of Reserved Forests constituted under the Forest Act V of 1882.						
	1883-84.	1884-85.			1885-86.		
	Under section 25 only.	Under section 25.	Under section 16.	Total.	Under section 25.	Under section 16.	Total.
1	2	3	4	5	6	7	8
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	..	..	..	..	..	27·45	27·45
North Arcot	..	..	56·82	56·82	..	137·73	137·73
South Arcot	..	..	..	..	2·75	..	2·75
Salem	..	..	..	..	..	..	..
Trichinopoly	4·12	1·07	..	1·07	..	..	..
Tanjore	..	..	..	..	..	..	..
Coimbatore (North)	3·69	..	..	..	..	20·00	20·00
Coimbatore (South)	162·00	..	329·40	329·40	..	74·50	74·50
Madura	257·06	..	..	..	18·00	9·31	27·31
Tinnevelly	286·80	..	..	..	..	..	..
Malabar { Wynaad and Pálghat ..	4·75	..	..	..	..	118·44	118·44
Malabar { Nilambúr	6·26	..	..	..	4·59	..	4·59
South Canara	..	1·38	..	1·38	..	..	..
Total ..	724·68	2·45	386·22	388·67	25·34	387·43	412·77

District.	Extent of Reserved Forests constituted under the Forest Act V of 1882—*cont.*			District area.	Percentage of reserved forests.
	Grand Total.				
	Under section 25.	Under section 16.	Total.		
	9	10	11	12	13
	SQ MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
Chingleput	..	27·45	27·45	2,842	·97
North Arcot	..	194·55	194·55	7,256	2·68
South Arcot	2·75	..	2·75	4,873	·06
Salem	..	..	..	7,653	..
Trichinopoly	5·19	..	5·19	3,561	·15
Tanjore	..	..	..	3,654	..
Coimbatore (North)	3·69	20·00	23·69	7,842	7·52
Coimbatore (South)	162·00	403·90	565·90		
Madura	275·06	9·31	284·37	8,401	3·39
Tinnevelly	286·80	..	286·80	5,381	5·33
Malabar { Wynaad and Pálghat ..	4·75	118·44	123·19	5,765	2·33
Malabar { Nilambúr	10·85	..	10·85		
South Canara	1·38	..	1·38	3,902	·04
Total ..	752·47	773·65	1,526·12	61,130	2·49

8. The areas proposed for reservation under section 4 of the Forest Act regarding which notifications under section 16 had not been issued up to 31st March 1886, are as follows :—

District.	Of those notified under Section 4 in 1883-84.		Of those notified under Section 4 in 1884-85.		Notified under Section 4 in 1885-86.		Total.	
	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.
Chingleput	..	..	29,055	45·40	9,596	14·99	38,651	60·39
North Arcot	47,125	73·63	..	..	..	..	47,125	73·63
South Arcot	..	..	..	..	119,915	187 36	119,915	187·36
Salem	..	..	*3,41,043	*532·88	*96,015	*150·02	*437,058	*682·90
Trichinopoly	12,000	18·75	..	..	7,025	10·98	19,025	29·73
Coimbatore (North) ..	..	..	48,000	75·00	..	..	48,000	75·00
Madura	..	..	†1,996	†3·12	..	..	†1,996	†3·12
Tinnevelly	..	..	..	..	172,606	269·70	172,606	269·70
Malabar { Wynaad and Pálghat ..	16,369	25·58	61,974	96·83	25,600	40·00	103,943	162·41
South Canara	..	..	..	..	48,055	75·09	48,055	75·09
Total ..	75,494	117·96	4,82,068	753·23	478,812	748·14	1,036,374	1,619·33

* Merged in the area of reserved lands constituted in 1884-85.
† Merged in the area of reserved lands.

9. With regard to the areas notified in 1883-84, the delay in completion of settlement in North Arcot is owing to the settlement of three blocks on the Javádis having been quashed by the appellate courts on account of irregularities in procedure. Government have ordered a re-notification and settlement by Mr. Wolfe-Murray. In the case of Trichinopoly, the delay is due to constant changes in the Divisional Revenue Officers appointed Forest Settlement Officers. In Wynaad and Pálghat, the appeals in respect of Chenat Nair forests (25·58 square miles) were only decided at the close of the year, too late for final notification under section 16.

Of the areas of 1884-85, the settlement of those in Chingleput was delayed through changes in the Divisional Revenue Officers; but is now well in hand through the appointment of Mr. Pinto, Deputy Collector, as Special Forest Settlement Officer.

In Salem, twelve blocks, aggregating 40,493 acres, were "settled" by Mr. Wolfe-Murray, C.S. The settlement of the rest is in progress, and will, it is hoped, be completed during the current year.

The 75 square miles representing the area of the eastern slopes of the Nílgiris in Coimbatore (North) were really finally notified as reserved forest under section 16 from 1st March; but the date was subsequently changed to 1st June at the instance of the Forest Settlement Officer, to enable him to publish the required proclamation, &c.

In Madura inquiry was completed in all cases at the close of the year by Divisional Revenue Officers, whilst in the Wynaad the numerous and complicated claims advanced were carefully investigated by Mr. Castlestuart Stuart, C.S., whose final decisions were pending at the close of the year.

The settlement of the areas of 1885-86 has been placed in the hands of Special Forest Settlement Officers in all districts, excepting Trichinopoly, Madura, and South Canara, and good progress may be expected during the current year, if existing arrangements are not disturbed.

10. *Reserved Lands.*—The sources from which areas were added to the list of reserved lands in each district during the year are indicated in the following table :—

District.	Added by transfer from forests regarded as reserves prior to Act V of 1882.	Added by transfer from unreserved or other forest.	New areas brought to account during the year.	Additions or deductions on account of demarcation and survey or other causes.	Deductions on account of transfer to reserved forests.	Total or net result.	
	ACRES.	ACRES.	ACRES.	ACRES.		ACRES.	SQ. MILES.
Chingleput	35,238	3,207	2,625	— 1,118	..	39,952	62·43
North Arcot	44,800	..	224,422	— 5,644	..	263,578	411·84
South Arcot	84,190	26,320	16,200	— 6,795	..	119,915	187·37
Salem	..	..	10,000	— 13,760	..	— 3,760	— 5·88
Trichinopoly	1,438	..	17,587	..	..	19,025	29·73
Tanjore	4,355	..	..	..	..	4,355	6·80
Coimbatore (North) ..	..	..	666,027	..	..	666,027	1040·67
Coimbatore (South) ..	..	..	..	..	— 47,680	— 47,680	— 74·50
Madura	..	2,438	1,920	..	— 5,956	— 1,598	— 2·50
Tinnevelly	..	201,856	..	+ 858	..	202,714	316·74
Malabar — Wynaad and Pálghat..	105,043	..	..	..	..	105,043	164·13
Malabar — Nilambúr ..	..	..	..	..	..	..	..
South Canara	..	..	48,055	..	..	48,055	75·09
Total ..	275,065	233,821	986,836	— 26,459	— 53,636	1,415,626	2211·92

The above results compare favorably with those of the preceding year as shown below, although 214,523 acres, or 335·19 square miles, of forests notified under section 4 of the Act in 1883-84 and 1884-85 which were included under reserved lands in 1885-86 are not taken into account for the purposes of such comparison.

District.	Area of Reserved Lands as per Annual Report for 1884-85.			Areas of Reserved Lands added during 1885-86.			Total Areas of Reserved Lands on 31st March 1886.			
	Notified under rule 2 of the rules under section 26.	Notified under section 4 of Forest Act.	Total.	Those notified under rule 2 of the rules under section 26.	Of those notified as proposed reserves under section 4.	Total.	Notified under rule 2 of the rules under section 26.	Of those notified as proposed reserves under section 4.	Total.	Percentage as compared with district areas.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	22·69	..	22·69	2·03	60·39	62·42	24·72	60·39	85·11	2·99
North Arcot	110·62	..	110·62	338·21	73·63	411·84	448·83	73·63	522·46	7·17
South Arcot	..	..	..	..	187·37	187·37	..	187·37	187·37	3·85
Salem	183·30	682·90	866·20	— 5·87	..	— 5·87	177·43	682·90	860·33	11·11
Trichinopoly	..	..	..	..	29·73	29·73	..	29·73	29·73	·83
Tanjore	..	..	..	6·80	..	6·80	6·80	..	6·80	·19
Coimbatore (North) ..	43·63	..	43·63	965·67	75·00	1,040·67	1,009·30	75·00	1,084·30	14·05
Coimbatore (South) ..	92·24	..	92·24	— 74·50	..	— 74·50	17·74	..	17·74	
Madura	132·55	3·12	135·67	— 2·50	..	— 2·50	130·05	3·12	133·17	1·59
Tinnevelly	..	..	..	47·04	269·70	316·74	47·04	269·70	316·74	5·89
Malabar (Wynaad and Pálghat)	19·92	.	19·92	1·72	162·41	164·13	21·64	162·41	184·05	3·19
South Canara	..	..	..	..	75·09	75·09	..	75·09	75·09	1·92
Total ..	604·95	686·02	1,290·97	1,278·60	933·32	2,211·92	1,883·55	1,619·34	3,502·89	5·73

11. A special report on fuel and fodder reserves was submitted during the year in compliance with the orders of Government. The progress made has not been great owing to press of other work, such as settlement and demarcation of reserved forests.

12. It only remains to consider the areas of "Forests regarded as reserves prior to the passing of Act V of 1882," and of "Other forests" as exhibited in forms No. 59 B and 59 D. From the former—

195,856 acres were transferred to 59 A (reserved forests) as explained in para. 6.
275,064 acres were transferred to 59 C (reserved lands) as per para. 10.
150 acres being area of forest land near Dóni in Wynaad and Pálghat, transferred to form No. 59 D (other forests).
2 acres, difference on account of survey, struck off in the area of Chedlet forest in Wynaad and Pálghat before transfer to reserved forests.

471,072 total deductions.
1,747 added in Nilambúr by transfer from the area of plantations, &c.

469,325 acres net deduction from 665,922 acres at the commencement of the year, leaving a balance of 196,597 acres, or 307·19 square miles, on 31st March 1886, in the districts of Chingleput, South Arcot, Trichinopoly, Tanjore, Coimbatore (South), Madura, and Malabar (Nilambúr).

13. From the areas under "Other forests" on 31st March 1885, we deduct 233,823 acres transferred to 59 C (reserved lands) as per paragraph 10, and add 214,680 as per marginal details, being a net deduction of 19,140 acres, leaving a balance of 720,477 acres, or 1,125·75 square miles, in the districts of South Arcot, Tanjore, Madura, Tinnevelly, Malabar (Wynaad and Pálghat) and South Canara.

+ 150 acres transferred from 59 B in Wynaad.
+ 214,400 acres, area of a new block, "Manattanna," in Wynaad and Pálghat division.
+ 130 acres, areas of Tannír Bhávi and Parappa in South Canara.

14. There are doubtless other large areas of forests in several districts not yet considered or brought to account; but as far as the figures are available, the areas of all descriptions of forests under this department in the Southern Circle at the close of the year were as follows, the net result as compared with the areas at commencement of the year being an addition of 1,861·46 square miles, the principal increase occurring

under "*Reserved forests*" in North Arcot, Coimbatore (South), and Malabar (Wynaad); "*Reserved lands*" in Coimbatore (North) and North Arcot, and under unreserved or "*Other forests*" in Malabar (Wynaad):—

District.	On 31st March 1885.					On 31st March 1886.		
	59 A. Reserved forests.	59 B. Forests regarded as reserves prior to Act V of 1882.	59 C. Reserved lands.	59 D. Other forests.	Total.	59 A. Reserved forests.	59 B. Forests regarded as reserves prior to Act V of 1882.	59 C. Reserved lands.
1	2	3	4	5	6	7	8	9
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	..	89·65	22·69	5·01	117·35	27·44	7·15	85·12
North Arcot	56·82	206·48	110·62	..	373·93	194·55	..	522·47
South Arcot	..	396·76	..	629·93	1,026·70	2·75	262·47	187·37
Salem	..	..	866·20	..	866·20	..	..	360·33
Trichinopoly	5·19	3·63	..	..	8·82	5·20	1·38	29·73
Tanjore	..	17·13	..	5·36	22·49	..	10·33	6·80
Coimbatore (North) ..	3·69	..	43·63	..	47·32	23·69	..	1,084·30
Coimbatore (South) ..	491·40	2·05	92·24	..	585·70	565·91	2·05	17·75
Madura	257·06	24·25	135·67	183·03	600·02	284·37	6·25	133·18
Tinnevelly	286·80	..	..	332·30	619·11	286·81	..	316·74
Malabar .. Wynaad and Pálghat ..	4·71	282·80	19·92	..	307·43	123·15	..	184·06
Malabar .. Nilambúr ..	6·26	17·72	..	..	23·99	10 85	17·55	..
South Canara	1·38	..	..	..	1·38	1·38	..	75·09
Total ..	1,113·35	1,040·50	1,291·01	1,155·65	4,600·44	1,526·12	307·19	3,502·93

District.	On 31st March 1886—*continued*.				Difference.				
	59 D. Other forests.	Total.	District area.	Percentage.	59 A. Reserved forests.	59 B. Forests regarded as reserves prior to Act V of 1882.	59 C. Reserved lands.	59 D. Other forests.	Total.
	10	11	12	13	14	15	16	17	18
	SQ. MLS.	SQ. MLS.	SQ. MLS.		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	..	119·71	2,842	4·21	+ 27·45	— 82·50	+ 62·42	— 5·01	+ 2·35
North Arcot	..	717·02	7,256	9·88	+ 137·73	— 206·48	+ 411·84	..	+ 343·09
South Arcot	588·81	1,041·39	4,873	21·37	+ 2·75	— 134·30	+ 187·37	— 41·12	+ 14·70
Salem	..	860·33	7,653	11·24	..	..	— 5·88	..	— 5·88
Trichinopoly	..	36·32	3,561	1·02	..	— 2·25	+ 29·73	..	+ 27·49
Tanjore	5·36	22·50	3,654	·62	..	— 6·80	+ 6·80	..	..
Coimbatore (North) ..	..	1,108·00	7,842	21·60	20·00	..	+1,040·67	..	+1,060·67
Coimbatore (South) ..	..	585·70			+ 74·50	..	— 74·50	..	..
Madura	179·23	603·03	8,401	7·18	+ 27·31	— 18·00	— 2·50	— 3·81	3·00
Tinnevelly	16·91	620·46	5,381	11·53	..	..	+ 316·74	— 315·40	+ 1·34
Malabar .. Wynaad and Pálghat ..	335·23	642·45	5,765	11·64	+118·44	— 282·81	+ 164·13	+ 335·23	+ 334·99
Malabar .. Nilambúr ..	..	28·40			+ 4·58	— 0·18	..	..	+ 4·41
South Canara	0·20	76·67	3,902	1·96	..	..	+ 75·09	0·20	+ 75·29
Total ..	1,125·75	6,461·99	61,130	10·57	+ 412·76	— 733·32	+2,211·91	— 29·90	+1,861·46

15. The total areas in each class on 31st March 1886, as compared with those on 31st March 1885, are as follows:—

—	On 31st March 1885.	On 31st March 1886.	Difference.
	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved forests under Act V of 1882 ..	1,113·35	1,526·12	+ 412·76
Reserved lands do. ..	1,291·01	3,502·93	+ 2,211·91
Forest regarded as "Reserves" prior to the introduction of the Act and not yet settled or notified for settlement under its provisions	1,040·50	307·19	— 733·31
Other forests	1,155·65	1,125·75	— 29·90
Total ..	4,600·51	6,461·99	+ 1,861·46

Boundaries.

16. The clearing of boundary lines and demarcation, permanent and temporary, extended over about 193 miles in the several districts at a cost of Rs. 3,317, or about Rs. 17 per mile on an average. There can be no uniformity in rates as the cost depends upon the nature of undergrowth in lines cleared, the configuration of the ground, method of demarcation adopted, and cost of labor and materials used, which differ according to circumstances.

The following particulars explain the work done in the Reserved Forests of the several districts:—

District.	Particulars.	Number of miles of lines cleared or demarcated.	Cost.
			Rs.
Chingleput ...	Clearing boundary lines for permanent demarcation of Tirukalikundram, Uragadam, and Madayattúr reserved forests, 5 yards or 15 feet broad ...	9¼	425
South Arcot ...	Demarcating and fencing permanently Annámalai reserved forest with a stone wall, 3 feet high and 1½ feet broad, with mile and furlong stones built in	4	2,000
Coimbatore (North) ...	Clearing lines in the Vellamundi reserved forest and demarcating in a preliminary manner by erecting about 850 wooden posts with whitewashed pots or chatties at top	70	300
	Note.—Cairns around those posts have yet to be erected.		
Coimbatore (South) ...	Erecting 577 cairns in the Mettupálaiyam range for the permanent demarcation of the Bhaváni valley reserved forest	36	215
	Clearing lines in the Bolampatti range and demarcating permanently with 13 cairns and 153 stones.	17	62
	Note.—The cairns consist of roughstone to a height of 3 feet round posts 7 feet high and 6 inches in diameter, firmly driven into the ground and bearing consecutive numbers. The stone pillars are 7 feet high and 6 inches thick with consecutive numbers.		
Madura	Completing the demarcation of Vannátipárai reserved forest, Rs. 104	20	147
	Erecting special boundary pillars for Kukal and Kudiraiyár reserved forest, Rs. 43 as per pattern given in last year's report	...	
Malabar. { Wynaad / Pálghat }	Clearing a line 3 feet broad in Bégúr reserved forest and completing interior demarcation by the erection of 107 teak posts with cairns of stones every furlong, the mile and furlong numbers being deeply cut on teak boards and nailed to the posts	25¼	127
	Demarcating southern boundary of Kurchiyát reserved forest on the above plan and erecting 12 mile posts and 79 furlong posts and 91 cairns...	11¼	41
	Total ...	193	3,317

17. *Other Forests.*—About 600 miles of boundary lines were cleared and demarcated in a preliminary manner at a cost of Rs. 2,000, or Rs. 3⅓ per mile on an average.

North Arcot.—The transfer of certain areas from Salem and South Arcot with a view to their better administration was sanctioned during the year; and the clearing and demarcation of new boundary lines is in progress.

Salem.—Thirty-nine blocks, in seven ranges, were taken up for demarcation, and 288 miles finished at a cost of Rs. 864, or Rs. 3 per mile. Pending completion of

settlement, the demarcation was confined to such portions of the boundaries of blocks under inquiry as are not sufficiently indicated by natural features.

The method adopted is to erect stout 9-foot poles tarred at the bottom, surrounded by a cairn of stones to a height of 3 feet and surmounted by a whitewashed chatti.

Tanjore.—The plantation at Káttucheri was demarcated by the Revenue Survey Department at a cost of Rs. 21.

Coimbatore (North).—The works done were as follows, preliminary to notification of blocks for settlement as reserved forests :—

Satyamangalam Range.

			Rs.
Cleared 110 miles of lines 6 feet wide and erected	1,326 posts ...	...	470
Kollegál Range.			
Cleared 66 miles of lines 6 feet wide and erected	720 posts ...	...	267
Bhaváni Range.			
Cleared 64 miles of lines 6 feet wide and erected	392 posts ...	...	212
Total 240 miles	2,438		949

or an average of Rs. 4 per running mile.

Twenty-one running miles of boundary of fuel and fodder reserves area in Erode taluk were cleared for Rs. 27, the work being very light.

Coimbatore (South).—Mr. Peet, Deputy Conservator of Forests, was deputed to represent Government in the settlement of the Travancore boundary on the Ánaimalais. He visited the locality with the Travancore representative; but as the two officers were unable to agree, the matter had been referred to arbitration.

Madura.—Old boundary lines were carefully gone over and damaged posts replaced. The boundary of the Rettiambadi Mitta and the eastern and western boundaries of the Ayakudi Zemindari were marked out; but the demarcation was not in accordance with the decision of the civil court, and will have to be done over again.

Tinnevelly.—The Marundi reserved land, in the Tenkási taluk, and the Mélavattam reserved land near Tuticorin were demarcated, the former with seventy stones for Rs. 175 and the latter with 105 stones for Rs. 267. The letters F. D. and serial numbers are cut on the stones.

Fifty-one miles of boundary lines between Government and other private forests were cleared for Rs. 159, and the boundary line between Government and Tíruvá-duturai matam land at Vadagarai (Nángunéri taluk) was recleared at a cost of Rs. 97.

CHAPTER III.

Surveys, Working Schemes and Annual Plan of Operations.

18. *Surveys.*—Government, in their order, dated 17th August 1885, Mis. No. 4288, Revenue, called for a detailed forecast of forest survey work for the next two years, which was duly furnished. The Superintendent, Madras Survey, then drew up his scheme after consultation with the Conservator of Forests, and the whole matter is now again before Government. It is hoped that some scheme will shortly be sanctioned and ordered to be put in hand at once.

19. Very little survey work was done during the year by Forest Officers. Forester Rebeiro, in the North Arcot district, surveyed the Tellai proposed reserved forest, and prepared a map of it. In Salem certain outlines and interior lines of the Mórúr, Vadagampatti, and Kanjeri blocks were surveyed in order to expedite working arrangements for supply of railway fuel. In Coimbatore (South), the exterior lines of the thirty-nine compartments of the Tekadi leased forest (26 square miles) were surveyed departmentally with prismatic compass and chain for the purpose of framing a working scheme. The same method of surveying was adopted in South Canara, by the District Forest Officer, in regard to Chinkramale block, and by the Ranger in surveying the space available for extension of plantation at Tannír Bhávi. The former was not completed within the year, and the latter gave a result of 29½, acres.

In the Trichinopoly district two Surveyors, from the Revenue Survey Department, were engaged in the survey of the north banks of the Cauvery and Coleroon

rivers, but the work had not been completed at the close of the year. The District Forest Officer is unable to prepare working schemes for forest-clad areas on the northern banks until its completion.

Mr. Stanbrough explains that the departmental surveys referred to in the last annual report, the accuracy of which was called in question by the Revenue Survey Department, were merely undertaken in order that the Collector might decide the limits of padugais (river banks) over which the Public Works Department and the Revenue Department should, respectively, retain control and enable the Forest Department to prepare preliminary working schemes for the remainder. Both objects were attained, but it is matter for regret that the survey could not be incorporated in the Revenue Survey maps owing to the fact of its having been executed with prismatic compass and chain, whereas the Survey Department maps are based on a theodolite survey.

In Madura, the demarcation and survey of the Lower Palnis was continued by the Revenue Survey Department throughout the year, but no maps have yet been published.

The Revenue Survey Department was expected to do a great deal of work in this district during the year, and extensive clearings of lines for their purposes were made by the District Forest Officer, but the outturn of work did not come up to expectations, and it is feared that many of the lines will have to be re-cleared.

In Wynaad and Pálghat, a Surveyor was at work in the Wálayár reserved forest, demarcating the extensive areas of sheet rock and sub-dividing the blocks into compartments. The sheet rock was demarcated and surveyed, but further progress was retarded owing to the illness of the Surveyor who got Wálayár fever.

The Botanical Garden at Manantoddy (area 20·44 acres) and a block of screw-pine swamp (area 39·36 acres) were surveyed and mapped, and a notification under section 4 of the Forest Act submitted for the latter.

20. *Working Schemes.*—No working schemes were sanctioned during the year for any of the reserved forests. Much progress in this direction cannot be expected until forest settlement is completed, and so long as the existing want of forest surveys and maps remains unsupplied. The Conservator's views on the subject of starting a working plans branch for this Circle were submitted to the Board in the beginning of the year, and they agreed with him that all that could be done at present was to organize a special party for forest surveys under a specially qualified Survey Officer (*vide* Board's Proceedings, dated 18th April 1885, No. $\frac{1219}{\text{Forest } 222}$).

A sufficient number of blank books for "Forest journals" prescribed in paragraph 79 of the Departmental Code were supplied to all districts with instructions. It is hoped that much information useful for the preparation of working schemes will be available from these books in course of time, if the instructions are adhered to.

21. In North Arcot, Rangers and Foresters were instructed to number, measure, and keep a record of all sandal trees, and collect other data for a working scheme for the sandalwood supply from the Javádi hills. In South Arcot, the preparation of preliminary schemes for the Annámalai reserved forest, the six Gingee proposed reserves, and five other blocks besides the Vettangudi forest and plantation in Shiyáli taluk, Tanjore, was initiated; but the schemes have not reached this office for approval and sanction. The District Forest Officer, Salem, submitted a preliminary scheme for working the Mórúr block, which was returned for revision with detailed instructions.

In Trichinopoly, a compartment was roughly marked out in the Punjantángi hill reserved forest and a portion of it felled, from which data for the preparation of a working scheme will be collected.

A preliminary working scheme for the reserved forest (plantations) on the Cauvery south bank has been prepared, but is still under revision by the District Forest Officer in accordance with instructions sent to him by the Conservator.

In South Canara preliminary schemes were prepared by the District Forest Officer for Poitaji and other old coast reserves and shown to the Conservator during his visit to the district. They had to be revised and were not finally drawn up for approval at the close of the year.

During the Conservator's inspection of Nilambúr, in October 1885, a statement showing approximately the number of trees which should be removed and left standing in the teak plantations during quinquennial periods from the eleventh to sixty-first year of growth was drawn up, on the basis of which a preliminary working scheme for the next five years' thinnings was framed.

The progress made as regards preliminary working schemes in Coimbatore (South) was greater than in other Forest divisions, the settlement of reserved forests being complete, and the District Forest Officer able to direct his attention and that of his Sub-Assistant Conservator (trained at the Forest School, Déhra Dún) to this important professional matter. A scheme for the Shôlakarai block of the Bôlampatti reserved forest was prepared but not finally revised and sanctioned by the Conservator until after the close of the official year. The map and working plan are, however, submitted as an appendix No. I to this report, three cuttings (*coupes*) having been made during the year under review with satisfactory results.

Sufficient data were collected for framing a scheme for the Tekadi leased forest in the same district, which was under preparation at close of the year, and has since been submitted by the District Forest Officer. It will be referred to in next year's report.

22. *Annual plans of operations.*—These were as usual matured by the Conservator in communication with District Forest Officers and Collectors in connection with the budget estimates.

They have been fairly well adhered to, except in South Arcot, Coimbatore, and South Canara, where circumstances involved considerable deviations from the original plans.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

Section 1.—*Reserved Forests.*

Section 2.—*Other Forests.*

23. It is still impossible to deal separately with the reserved and other forests as the establishments have not been separately employed on one or other class in particular.

(a) *Establishments, Ranges, and Beats.*

24. *Establishment.*—The superior staff was increased during the year by the addition of one trained officer from England (Mr. Somers Smith) and stood as follows on 31st March 1886 :—

1 Conservator,
8 Deputy Conservators,
5 Assistant Conservators,

of whom one Deputy Conservator (Mr. Peet) was absent on furlough.

The increase in the number of Deputy Conservators, as compared with last year, is due to the permanent promotion of two Assistant Conservators (Messrs. Hadfield and Stanbrough) to that class consequent on the death of Mr. Boileau, Deputy Conservator attached to the Northern Circle, and the reversion of Mr. Sim, C.S., of the same Circle, to the Revenue Department.

Messrs. Cherry and Morgan, Deputy Conservators, 2nd and 4th grades, were promoted permanently to 1st and 3rd grades, respectively. Of the Assistant Conservators, Mr. Brasier, 2nd grade, and Mr. Peake, 3rd grade, having passed the prescribed examinations and obtained the requisite certificates of competency to hold charge of a district or range, were promoted to the 1st and 2nd grades, respectively.

There were several acting promotions in both classes during the year in consequence of absence of officers on leave, &c., including that of a Native Sub-Assistant Conservator, T. Muhammad Ali Sahib, to the Assistant Conservators class.

25. The subordinate staff (permanent) of executive and protective establishments on 31st March 1886 consisted of—

6 Sub-Assistant Conservators,
30 Forest Rangers,
74 Foresters,
342 Forest Guards,

distributed as under:—

District.	Sub-Assistant Conservators.		Rangers.		Foresters.		Forest Guards.		Office Clerks.		Office Inferior Servants.		Total cost.
	Number.	Cost.	Number.	Cost.	Number.	Cost.	Number.	Cost.	Number.	Cost.	Number.	Cost.	
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.
Direction ..	..	..	..	..	3	45	..	..	9	457	7	62	564
Chingleput ..	1	200	..	..	3	70	14	100	1	25	5	37	432
North Arcot ..	..	..	3	235	10	260	44	302	4	115	5	40	952
South Arcot ..	..	..	2	140	9	250	50	400	4	115	5	40	945
Salem ..	1	200	3	210	9	240	50	371	5	140	7	53	1,214
Trichinopoly ..	..	..	2	140	4	100	18	130	3	75	5	39	484
Tanjore ..	..	..	..	..	2	80	3	25	1	25	1	6	136
Coimbatore (North) ..	..	..	3	170	4	90	25	200	4	115	5	40	615
Coimbatore (South) ..	1	150	3	190	6	170	30	214	4	115	5	40	879
Madura ..	..	..	3	230	6	170	27	210	3	75	7	54	739
Tinnevelly ..	1	150	2	100	6	150	24	167	4	100	7	54	721
Malabar { Wynaad and Pál-ghat..	1	150	3	170	3	70	27	190	5	140	7	54	774
Malabar { Nilambúr..	*1	100	1	50	3	80	6	48	3	75	4	32	385
South Canara ..	..	..	1	50	4	100	24	191	3	75	5	39	455
Forest School ..	..	..	4	230	2	60	..	..	1	20	..	..	310
Total ..	6	950	30	1,915	74	1,935	342	2,548	54	1,667	75	590	9,605

* Probationer under training for the Forest School.

The full complement in each class was employed, except under Forest Guards, in which there were a few vacancies at the end of the year. The cost was, however, less than the sanctioned amount for the year by Rs. 370 per mensem. This was chiefly owing to the employment of men in lower grades for vacancies in higher grades.

26. *Ranges and Beats.*—These were fully explained in the last annual report. The distribution as regards all divisions, excepting the following remains unaltered.

South Arcot.—One new range, called Vriddhachallam, or No. VII, was constituted. This was formerly included in No. IV or Head-quarter Range.

The name of No. II Range was altered into Tindivanam, and of No. III into Villupuram.

Tanjore.—All the forests in the Shiyáli taluk were constituted into one range and placed in charge of a First-grade Forester subject to the supervision of the District Forest Officer, South Arcot, the forests in other ranges having been placed *pro tem.* under the immediate charge of the Revenue Department.

Madura.—Instead of three ranges five were formed for reasons explained in the last annual report. They are as follows:—

No. I. Comprising the Periyakulam taluk, in charge of a Ranger with a Forester in charge of Cumbum Sub-Range.

No. II. Comprising the Palni taluk in charge of a Ranger with a Forester at Palni and another on the Lower Palnis.

„ III. Comprising the Dindigul taluk in charge of a Forester.

„ IV. Comprising Mélúr taluk in charge of a Forester.

„ V. Comprising the Madura and Tirumangalam taluks, under a Ranger with a Forester in charge of Alagarmalai reserved forest.

Endeavours will be made in next year's report to show the approximate area of each range charge and how much of it is actual forest.

(b) *General Protection and Breaches of Forest Laws.*

27. That general protection has improved may be gathered from the increased number of cases detected during the year, and the large amount of revenue collected

under the seigniorage permit system. The latter may be considered the result of better watching of the forests, as the requirements of the people, which doubtless remain the same, would otherwise be met by illicit cutting and removal of wood, &c., to the detriment of forest revenue.

The number of cases of breaches of forest laws detected and disposed of during the year was as follows as compared with the preceding year :—

Year.	Number of cases pending at the beginning of the year.	New Cases of the Year.					Total cases.
		Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1	2	3	4	5	6	7	8
1885-86	189	27	974	69	84	1,154	1,343
1884-85	24	218	622	49	118	1,007	1,031
Difference ..	+ 165	— 191	+ 352	+ 20	— 34	+ 147	+ 312

Year.	Disposed of during the Year.						Cases pending at the close of the year.
	Convictions.		Acquittals.		Total.		
	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15	16
1885-86	645	1,735	607	2,522	1,252	4,257	91
1884-85	513	1,784	310	856	823	2,640	208
Difference ..	+ 132	— 49	+ 297	+ 1,666	+ 429	+ 1,617	— 117

The number of cases pending at the beginning of the year is given at 189, while at the end of the preceding year it was shown as 208. The difference, viz., 19, occurs, 15 in Salem, 1 in Tanjore, and 3 in South Canara. In the first-named district it is explained that the figures given in the last annual report were obtained from the returns of Range Officers, and probably included cases pending with them for prosecution after preliminary inquiry, while the figures in the present report are taken from the returns furnished by Magistrates and therefore more accurate In Tanjore it is stated that one case in respect of an offence committed in the Vettangudi forests, which was pending before the Taluk Magistrate, Shiyáli, was disposed of under section 426 of the Indian Penal Code, and therefore omitted in the present return. The difference in South Canara is not explained.

The number of cases pending at close of the year under review was 91, which compares favorably with former years.

The marked reduction in the number of cases of "Injury to forests by fire" occurs principally in North Arcot and South Canara, and is owing to increased precautions and restricting our efforts at prevention to specially protected areas.

The increase in the number of cases of unauthorized felling of wood, &c., occurs in almost all districts. The number of convictions increased slightly in proportion to the number of cases, though a reduction is noticeable in the number of persons convicted. The large apparent increase in the number of cases and persons acquitted, is due to a larger number of cases having been "compounded" by Forest Officers under section 55 of the Forest Act. As there is no special column in which to enter such cases, Forest Officers still continue to include them amongst acquittals, which renders the returns misleading. Steps will be taken to amend the form by the addition of a column "Compounded" under "Disposed of during the year."

28. It is to be regretted that but few of the Forest Officers have specially alluded to the subject of compounding of forest offences in their annual reports. Information is only forthcoming from the following districts, but it is known to the Conservator that few cases, and those only of a petty nature, were compounded elsewhere during the year.

North Arcot.—Five cases in respect of illicit removal of charcoal, in which eleven persons were concerned, were investigated by the District Forest Officer and compounded for Rs. 39 in all.

Salem.—One hundred and eighty-four petty cases, in which 1,219 persons were implicated, were compounded for Rs. 1,007, or at an average rate of annas 13 for each offender.

Madura.—One case, in which two cart-loads of Vengai rafters, fifty-six in number, were removed without permit, was componnded for Rs. 25.

South Canara.—Seventy-six cases, in which ninety-nine persons were concerned, were compounded, the amount realized being Rs. 1,316.

The total number of cases compounded in the above four districts was 266, number of persons 1,330, and amount realized Rs. 2,387.

Besides the above, fifteen cases, in which 163 persons were concerned, were withdrawn in the Salem district.

If we deduct the above from the acquittals as entered in the return, it would appear that only 326 cases, involving 1,029 persons, were really acquitted out of 971 cases disposed of by the magistracy during the year. This represents seventy-five convictions to twenty-five acquittals, which is satisfactory.

29. Cattle trespass and unauthorized encroachments on reserved lands continue to be somewhat too common. Special forest pounds erected in Malabar have done good; but the special pound fees sanctioned under section 58 of the Forest Act for cattle found trespassing in certain reserved forests (plantations) in Trichinopoly appear to have exercised little or no deterrent effect.

These semi-wild cattle roam through the plantations at will, and render all attempts at planting or measures of natural reproduction nugatory in some places. Further measures must be adopted.

30. The District Forest Officer, Wynaad and Pálghat division, complains of the inadequacy of the punishments meted out to convicted offenders in the Wynaad. The Conservator has reason to believe that his complaint is well founded, and the District Magistrate has promised to look into the matter.

There are also complaints of the delay in disposal of forest cases and reluctance of the subordinate magistracy to award rewards to informers in or out of the department.

31. Two cases of considerable theft of timber in Coimbatore (South) were detected and the offender punished. The Ranger in charge was dismissed for neglect of duty and apparent connivance in the thefts by lending the Government stamp, which should never have left his possession.

An important "*Kumari*" case in South Canara was convicted, and a fine of Rs. 200 inflicted; but the sentence was reversed by the High Court on the ground of insufficient evidence.

On the whole the breaches of forest laws may be said to have been of a petty nature and the detection fairly good.

(c) *Forest Fires and Fire Protection.*

32. *General Protection.*—It is believed by several District Officers that owing to increased vigilance and orders circulated to villagers, &c., forest fires generally have decreased. The Conservator, whilst admitting that there may have been some temporary improvement in some districts, does not believe in the efficacy of *general* measures of fire protection. We must adopt *special* measures over comparatively small areas and gradually extend them.

Forest fires in areas not under special protection were very prevalent during the year under report in almost all districts of the Circle.

33. Information as regards forest areas which escaped fire without special protection is available only for the following districts :—

District.	Acres.	Equivalent in square miles.
South Arcot	282,011	440·64
Trichinopoly	5,207	8·13
Coimbatore (South)	167,473	261·67
Madura	172,147	268·97
Tinnevelly	157,977	246·83
Malabar (Wynaad and Pálghat)	72,325	113·00
Total ...	857,140	1,339·24

The Conservator does not attach much value to the above figures.

The areas in all, excepting Madura, are the same as in the preceding year, both as regards extent and locality. In Madura certain areas in which danger from fire was anticipated had been placed under special protection. Hence the reduction of 31,923 acres as compared with the preceding year's figures. No information was furnished for Wynaad and Pálghat in last year's report.

34. *Special Protection.*—Fire protection accounts for the past year were closed on 31st March along with other accounts as sanctioned in G.O., dated 19th April 1886, No. 291, communicated with Board's Proceedings, dated 5th May 1886, Forest No. 233. Form No. 62 has been prepared accordingly, the word fires being substituted for failures in column 5. The following is an abstract thereof :—

District.	Up to 15th June 1885.		During the remaining period of 1885-86, viz., 15th June 1885 to 31st March 1886.				Total cost up to 31st March 1886.
	Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Actually protected.	Amount expended.	
Chingleput	7,350	1,257	7,350	..	7,350	240	1,497
North Arcot	237,869	8,372	234,572	5½	234,566	739	9,111
South Arcot	69,972	1,471	102,360	350	102,310	495	1,966
Salem	17,807	6,246	30,979	3	30,976	1,359	7,605
Trichinopoly	..	..	17,000	..	17,000	784	784
Tanjóre	..	..	..	..	..	..	..
Coimbatore (North)	2,364	356	2,364	..	2,364	46	402
Coimbatore (South)	13,917	2,410	13,947	2,630	11,317	831	3,241
Madura	77,249	5,965	120,362	1,021	119,341	3,379	9,344
Tinnevelly	10,477	652	19,997	175	19,822	1,760	2,412
Malabar .. Wynaad Pálghat	20,801	4,218	20,943	5,480	15,463	1,060	5,278
Malabar .. Nilambúr	9,180	967	9,180	..	9,180	654	1,621
South Canara	743	108	839	26	813	135	243
Total ..	467,729	32,022	579,893	9,696½	570,502	11,482	43,504

The opening figures on 15th June 1885, both under area and cost, agree with the closing figures in the last annual report.

35. The area attempted to be protected during the year as compared with that attempted in the preceding season shows an increase of 103,171 acres (161·2 square miles). The particulars of the increase are as follow :—

District.	Particulars of Additions, &c.					
	New blocks brought under protection.		Additions or deductions of lands from existing areas.		Additions or deductions by reason of revision of areas, survey, &c.	Total area added or deducted.
	Number of block.	Area.	Number of block.	Area.		
		Acs.		Acs.	Acs.	Acs.
Chingleput	..	..	..	..	— 210	— 210
North Arcot	..	..	..	..	— 4,632	— 4,632
South Arcot	7	23,000	4	11,600	+ 115	+ 32,075
			3	— 2,640		
Salem	5	13,172	..	..	..	+ 13,172
Trichinopoly	4	17,000	..	..	..	+ 17,000
Madura	6	35,853	1	640	..	+ 36,493
Tinnevelly	2	9,520	..	..	..	+ 9,520
Malabar .. Wynaad and Pálghat ..	..	..	..	..	— 333	— 333
Malabar .. Nilambúr	..	..	..	..	— 10	— 10
South Canara	2	96	..	..	..	+ 96
Total ..	26	98,641	8	9,600	— 5,070	+ 103,171

The largest addition has, as in the preceding year, been made in Madura, principally under reserved forests. South Arcot comes next, the areas taken up being chiefly those notified under section 4 as proposed reserved forests. The tracts protected in Trichinopoly are proposed reserves on the Pachaimalais, which have long required special protection. The additions in Salem were in the Hosur range, and those in Tinnevelly were in Ambásamudram and Nángunéri. The net addition for the whole Circle during the year under report amounts to ·21 per cent. of the area attempted in the previous year, which indicates the increased energy displayed by Forest Officers in this most important branch of their profession. That their exertions were not in vain is further proved by the fact that the fires were not greater during the year than in the preceeding one, notwithstanding the considerable increase in area protected.

36. The fires during the year amounted to 9,691 acres out of 579,893 attempted, thus leaving at the close of the year 570,202 acres "actually protected," or in other words the protection afforded was successful in respect of more than 98 per cent. of the area attempted.

37. The comparison as regards cost appears also to be in favor of the year under report, in which 570,202 acres, or 891½ square miles, were protected for Rs. 11,484, whereas in the previous season 467,729 acres, or 731 square miles, cost nearly the same, viz., Rs. 11,422. In other words, the cost per acre during the year under report was nearly 4 pies or Rs. 13 per square mile, against 5 pies per acre or Rs. 16 per square mile in the preceding year. The results for the past year are, however, for only 9½ months as compared with those for 12 months in 1884-85.

If we add the expenditure for April and May and half of June gleaned from the classified abstracts we have—

	Rs.
Expenditure entered in form No. 62 for 9½ months of the year ...	11,484
Add expenditure as per classified abstracts for April and May 1886 and half of June	3,686
Total ...	15,170

The cost per acre will thus be a little over 5 pies, or about Rs. 17 per square mile, which is not high considering the larger area newly brought under protection during the year, the initial or first year's expenditure being always more than that of succeeding years.

The total cost of fire protection from the commencement has been nearly Rs. 50 per square mile of protected area on 31st March last.

38. The largest fires in protected areas during the year occurred in Malabar (Wynaad and Pálghat), where 5,440 acres were burnt in Bégúr and 40 acres in Chenat Nair, or 5,480 acres in all. No less than four fires occurred in the Bégúr forest, of which one is reported to have been caused by the arrest and removal by the Mysore authorities of the fire patrols engaged in sweeping the Murkall fire-line and the consequent entry of fire from the Mysore forests. On this occasion 200 acres of the reserved forest were burnt. Other fires which occurred about the same time in compartments situated at a distance from each other are supposed to have been the work of incendiaries, who, it is suspected, were no others than the Kurumbers and Panniyars of Mysore, between whom and our fire-patrols (Wynaad Kurumbers) friendly feelings do not appear to exist. Arrangements have been made with the Mysore and Coorg authorities to secure better co-operation in future. A Mysore Panniyar who was found wandering in the reserve at the time of fire, and who could not give a satisfactory account of himself, and another found fishing without a license in the reserve at the same time were prosecuted. But the Magistrate, on conviction, fined the former annas 4 and the latter Rupee 1, though the damage by fire is assessed by the District Forest Officer at Rs. 10,000!

In the partially protected Kurchiyát block only one fire, which burnt about 1,920 acres, occurred.

Several fires were lit by incendiaries (Mulcers) in Chenat Nair forest, but all were extinguished with a slight damage to less than 40 acres of grass.

The next large fire occurred in Coimbatore (South) where the whole of the protected area in No. I reserved forest (2,630 acres), Tunacadavu range, was burnt by a fire which originated in the private forests of the Kollengode Nambidi and entered the Sangam block (of the Tekadi leased forest) protected by a fire-line 40 feet broad. The Ranger, who was on the spot at the time, attempted to arrest the progress of the fire by cutting and burning lines in front of it, but without success, as the whole forest was covered with thick dry grass 6 feet high and clumps of dead bamboos, burning splinters of which were carried across the lines by strong winds. Fifteen teak logs lying in the Sangam block at the time were completely burnt, and 58 logs slightly injured. These logs should have been collected in one place and fire traced before the fire season, but operations were delayed through the failure of a contractor and much sickness amongst the forest establishments. The inadequacy of a 40-feet line to check a forest fire was fully demonstrated; and we must, in future, have lines at least 150 feet broad in such localities, unless we can burn off the unprotected forest outside.

In the Madura district, 1,021 acres were burnt, viz.:—

		ACS.
(1)	In Pámbár reserved forest	46
(2)	„ Vannátipárai and Mela Gúdalúr blocks of Cumbum valley reserved forest	640
(3)	„ Púmbárai Villpatti reserved forest	30
(4)	„ Perumálmalai	300
(5)	„ Alagarmalai reserved forest	5
	Total ...	1,021

Nos. 1 and 5 were caused by incendiaries. No. 3 was the result of accidents in burning off fire lines by coolies. It ran over a large area, but the damage in reserved forest was only 30 acres. No. 3 fire from the Travancore hills crossed over fire-lines. It entered near Pappanani and burnt over 1 square mile in the extreme southern slopes of Cumbum valley reserved forest. The fire was got under with great difficulty. No. 4 was caused by some shikaries. It burnt over about 200 acres containing gall-nut trees and 100 acres bare grass-land.

The failures in South Arcot amounted only to 350 acres.

The 175 acres burnt in Tinnevelly occurred in a block on the Kalakád hills while fire-tracing. It was the result of a "head fire" caused by the high winds which prevailed at the time. The land being steep the fire was difficult to get under, but the burnt portion contained no saplings of valuable descriptions.

In South Canara the failures were 26 acres, *i.e.*, 21 acres in Sabládi, 2 acre in Pillarkhán and 3 in Poitaji and Káyarpalle, all caused by fires which originated outside.

In North Arcot 2 acres in Tellai reserve, Javádi hills, 3 in Peddúr (Palmanér range) and ½ an acre in Punganúr reserves, or 5½ acres in all have been entered under "Fires."

In Salem 1 acre in Singarampet reserved land and 2 acres in Karúr block reserved land, or 3 acres in all were burnt.

The results may on the whole be considered satisfactory.

(d). *Grazing.*

39. As promised in the last annual report the question of "Grazing" received special attention during the year. The Conservator's views on the subject generally are contained in his letter reporting on the scheme for light grazing in the State (reserved) forests printed with Board's Proceedings, dated 17th November 1885, No. $\frac{3141}{\text{Forest } 630}$. His proposals were briefly—

To leave sufficient areas of unoccupied unreserved land when available outside reserved forests for free pasturage of village cattle, and to permit limited or light grazing in reserved forests and lands not closed for reproduction, special fire protection, &c. The number of cattle to be so admitted was fixed at one head to 5 acres as a tentative measure, and the offer of the grazing on that basis and at normal rates is to be made in the first instance to resident and neighbouring cultivators, and only if they decline it to outsiders at enhanced rates. Goats and buffaloes to be excluded.

It is hoped that such measures, if carried out with tact and patience, will prove to the people the benefits of living near a reserved forest, and in time secure their co-operation in prevention of fire, illicit cutting, &c.

Detailed instructions to the above effect have been issued, and the Conservator has endeavoured to explain the scheme fully to the Forest Officers and people during his tours.

It will, of course, take time to make the villagers understand and appreciate the measures. So far the results are briefly as follows which cannot be considered encouraging.

40. In Coimbatore (South) the people were invited to state their requirements in the shape of grazing in the Bolampatti, Tadágam, and Bhaváni valley reserved forests, but few came forward, though the District Forest Officer personally visited the localities for the purpose of receiving their applications and arrange to meet them as far as possible.

In North Arcot, the people declined to avail themselves of any grazing in reserved forests if they had to pay anything for it, which, as the District Forest Officer remarks, proves pretty conclusively that they have really sufficient outside. When these people, however, are really prevented from pasturing their cattle, and see the pasturage leased out to others, they will probably come forward and avail themselves of the privilege offered to others of grazing, subject to certain conditions including the payment of moderate fees.

A certain measure of success appears to have attended the scheme in the Madura district, where the District Forest Officer had introduced it in the Cumbum valley reserved forests, and expresses the hope that, when fully understood, he will be able to extend it to other forests.

In Tinnevelly, on the other hand, the only result of allowing the cattle into the reserved forests has been the occurrence of fires in areas to which general protection has been more or less successfully extended for years. This has been brought to the Conservator's notice not only by the Sub-Assistant Conservator and the District Forest Officer, but by the Forest Settlment Officer, Mr. Pinto, now employed in the Tinnevelly district.

These people will have to be taught a lesson by the exclusion of their cattle for one or more seasons.

41. In most other districts grazing when permitted at all has been free and unrestricted, but as Government have recently sanctioned the maximum fees applicable to reserved lands, they will gradually be introduced mainly with a view of *regulating* the grazing and restricting the numbers by which we hope to improve the pasturage and to supply the necessary funds for pay of watchmen dividing the forests and grazing grounds into blocks, &c.

A commencement was made in the reserved lands of Coimbatore (North) towards the close of the official year, a small temporary establishment having been employed to census the cattle and collect the fees, ample provision being made for the exemption of ploughing cattle and milch cows of local cultivators pending the setting apart of free areas for their use.

A good deal of combined opposition to the payment of the grazing fees was experienced, which we believe was mainly instigated by a few influential village officers.

It will certainly die out if the Forest and Revenue Officers act with patience and forbearance as the fees are really absurdly low and payable chiefly by a class of graziers who make large profits by breeding cattle of which they have hitherto contributed nothing to the public revenues, whilst the cattle and herdsmen, in the absence of any restrictions, do incalculable harm by burning the grass and seedlings and tearing down branches in the most reckless manner for the sake of the leaves.

42. The grazing question is one of great public importance, and whilst it should be clearly understood that it must, when necessary, give way to the protection and improvement of the reserved forests, there is, in the Conservator's opinion, no reason why, by the exercise of care and judgment, the restrictions should not be reduced to a minimum, and our forest operations in India eventually conduce as much to an increased supply of good and cheap pasturage as of good and cheap timber, firewood, and other forest products.

43. The revenue collected in the shape of grazing fees during the year under report does not differ appreciably from that of the previous year.

(e) *Natural Reproduction.*

44. From careful personal inspection of forest areas in all districts under real protection, the Conservator can vouch for marked improvement in natural reproduction both from seed and coppice stools. It is only within the last three or four years that we have been placed in a position to enforce such protection by excluding cattle and fire, and the results are most satisfactory and encouraging.

In the case of the teak forest on the Anaimalais alone and especially in that of the Punáchi block, can the above not be said.

There has been an ample supply of seed from mature trees of Teak, Rosewood, and Véngai, and the seed has, as a rule, germinated well; but the seedlings, especially the teak, have almost all disappeared after promising well at the commencement.

This is very disheartening; but we must not and need not lose heart. The forest, especially the Punáchi block, has been burnt over annually and resorted to by thousands of cattle for many years. The soil, when the Conservator selected the Punáchi block for reservation seven years ago, resembled that of a high road, and it is only within the past four years that cattle and fires have been excluded, the result being a strong growth of coarse elephant grass which chokes all other growth.

Limited grazing must be tried over a portion of the area, the grass cut and burnt or placed in silos in another, and cultural operations, such as breaking up the soil and even dibbling in seedlings during the first rains, initiated over very limited areas to commence with.

The usual course of nature which has been interfered with for many years cannot be restored in a few weeks or months. We must endeavour to restore the soil to its natural state, create a humus or its Indian substitute and get rid of the rank growth of grass by degrees before we can hope to restock those denuded and mismanaged forests.

45. *Chingleput.*—The old stumps of Redwood in the Kámbákam reserved forest under special protection since 1883 have sent up strong shoots, the largest of which, four years old, measured 6 inches in girth at a height of 3 feet 6 inches from the ground. The area is also well stocked with self-sown seedlings of both Redwood and Tumba (*Shorea Tambuggaia*).

North Arcot.—Reproduction in all the reserved forests is satisfactory, and the improvement is fully perceptible. The Napier, Mámandúr, and Carnatic Ghúr reserved forests are reported to be well stocked with seedlings of from one to four years old of fine straight healthy growth. In Punganúr and Palamadi reserved forests, the coppice growth, in some places, is excellent.

Reproduction in open or unreserved forests in this district is said to be better than formerly, which is attributed to better regulated fellings in recent years.

South Arcot.—The District Forest Officer offers no remarks with regard to the natural reproduction in the reserved forests of the district, but gives the names of some of the chief trees found in them. As regards unreserved forests, he is unable to report either favorably or to the contrary. Grazing is stated to have been a preventative to regrowth. In some tracts the growth of seedlings is found promising, while in many others not a seedling can be seen. The District Forest Officer, however, feels certain that an immense number exist under the thorny shrubs so common in the old reserves.

In the artificial forests of Nochikádu and Agaram, reproduction from coppiced stools of casuarinas has not been a success.

Salem.—Natural reproduction is stated to have somewhat improved in protected areas. That people begin to realize the advantages of such protection is illustrated by the fact that, on more than one occasion, the District Forest Officer has had applications from whole villages to reserve certain lands for the improvement of their grass and wood supply.

Trichinopoly.—Coppice growth of *Albizzia Lebbek*, *Cassia Fistula* and *Acacia arabica* has been good, but that of casuarinas a decided failure.

The exclusion of cattle from the newly-felled areas of the Coleroon plantations has produced good results in the shape of reproduction.

The same may be said with regard to the limited measures of protection afforded to certain areas on the Pachaimalais. The villagers at the foot, whilst protesting against the exclusion of their cattle, have not been slow to note and appreciate the improvement in the forest already apparent, which they assured the Tahsildar had already augmented the water-supply, or at least rendered it more regular, but this is probably imagination.

Tanjore.—The restricted cattle grazing has resulted in a marked improvement, especially in Vettangudi. Reproduction from coppice in the Point Calimere forest (reserved land) has been on the whole fairly good.

Coimbatore (*North*).—No remarks, the District Forest Officer having recently taken charge and having no areas under special protection except the small sandalwood reserves in Kollegál and Satyamangalam.

Coimbatore (*South*).—The reproduction from seedlings, especially of teak, in areas specially protected against fire and cattle for the past five years is still unsatisfactory. The few seeds which manage to germinate are soon choked by the heavy undergrowth of grass. The Conservator's recommendation that a limited number of cattle should be permitted to graze, under careful supervision, in the formerly closed areas will be adopted in 1886-87.

Reproduction from coppiced stools in the Shôlakarai block of the Bôlampatti reserved forest is all that can be wished for. Shoots, only seven months old, are five and six feet high on an average and are looking strong and healthy.

Madura.—The District Forest Officer writes:—"Generally throughout the district, but more specially in Pámbár, Alagarmalai, and Vannátipárai reserved forests, where cattle have been excluded and fire prevented, natural reproduction has been

greatly encouraged and the improvement in the vegetation on the hill sides is very marked indeed. Arankánal gallnut tree tract shows very satisfactory results from successful fire-protection extending over three years." The Conservator can fully corroborate the above after personal inspection.

Tinnevelly.—No remarks of any importance.

Malabar (Wynaad and Pálghat).—Reproduction from coppice in the felled compartments of Wálayár has been excellent, and numerous shoots are coming on.

In Chenat Nair, reproduction everywhere has been good and the young growth of Irul (*Xylia dolabriformis*) on the lower slopes is especially good. In Wynaad the favorable growth of young Rosewood and Véngai in Bégúr will certainly be injuriously affected by the disastrous fires which happened during the year.

Malabar (Nilambúr).—The growth from seeds and stools in Karimpóya block has been good; but the valuable descriptions of trees are very scarce. The Nellikóta block also exhibits a fine growth of saplings and stool shoots.

South Canara.—The reproduction from coppice at Poitaji cut in November 1884 is satisfactory. The old kumari forests in the Uppinangadi taluk afford a marked proof of the success with which *Xylia dolabriformis* reproduces itself by seed. *Macaranga tomentosa* comes up very thickly from seed in forest clearings, but it is not a tree of much value either for timber or other purposes.

(f) *Artificial Reproduction.*

46. The following is an abstract of Form No. 60 regular plantations:—

Districts.	On 1st April 1885.		Added or excluded during the year.		On 31st March 1886.	
	Area in Acres.	Cost.	Area in Acres.	Cost.	Area in Acres.	Cost.
		Rs.		Rs.		Rs.
Chingleput	546·52	26,919	— 14·43	+ 1,393 — 234	532·09	28,078
North Arcot	1,553·	97,367	+ 250·	+ 6,814	1,803·	1,04,181
South Arcot	1,352·	81,975	+ 154·08	+ 7,939	1,506·08	89,914
Salem	..	..	..	..	..	..
Trichinopoly	3,707·11	73,208	+ 50·	+ 2,959	3,757·11	76,167
Tanjore	734·	5,444	..	+ 2,717	734·	8,161
Coimbatore (North)	177·	48,010	— 80·	+ 631 — 18,563	97·	30,078
Coimbatore (South)	19·5	4,402	..	..	19·5	4,402
Madura	35.64	7,456	+ 3·50	+ 278	39·14	7,734
Tinnevelly	537·	738	— 537·	— 738	..	..
Malabar (Wynaad and Pálghat).	41·50	2,620	..	+ 314	41·50	2,934
Malabar (Nilambúr)	3,435·98	6,58,616	+ 107·41 — 23·88	+ 4,820 — 4,50,711	3,519·51	2,12,725
South Canara	183½	18,509	+ 2·	+ 654	185½	19,163
Total ..	12,322·30	10,25,264	566·99 — 655·31	28,519 — 4,70,246	12,233·98	5,83,537

The area and cost on 1st April 1885 agree with those shown on 31st March 1885 in the last report. Of the 567 acres added during the year, only 310 acres are really extensions by new plantings, viz., 154 in South Arcot, 50 in Trichinopoly, 4 in Madura, 100 in Malabar (Nilambúr) and 2 acres in South Canara. The balance of 257 acres is composed of 250 acres in North Arcot, being area of "Tengal" plantation (replanted) omitted in the preceding year's return, but now included, and 7 acres in Nilambúr being the result of adopting survey map areas.

The decrease in area newly planted as compared with preceding year is chiefly due to restricted expenditure owing to financial pressure.

The total *minus* area of 655 acres consists of 14 acres area of Kattivák plantation in Chingleput clean felled and abandoned, 80 acres area of Talamalai sandalwood plantation in Coimbatore (North) virtually abandoned for some years, 537 acres in Tinnevelly transferred to "cultural operations," and 24 acres in Nilambúr, being reduction due to survey map areas having been adopted.

The actual cost during the year both upon extension and maintenance of existing plantations amounted to Rs. 28,519 as compared with Rs. 30,766 in the preceding year. The reduction in expenditure is principally due to the smaller area newly planted.

Of the *minus* sum of Rs. 4,70,246, Rs. 19,535 represents deductions in the three districts of Chingleput, Coimbatore (North) and Tinnevelly owing to the abandonment of the area upon which the expenditure was incurred in the two former, and to transfer of the plantation area and cost to "cultural operations" in the latter. The balance, Rs. 4,50,711, represents expenditure upon Nilambúr plantations since their commencement adjusted under other heads of A. "Conservancy and Works" than VIII (*d*) plantation and also under B. Establishments. This is now deducted from Form No. 60, so as to make the amount actually shown therein tally with the expenditure under sub-head A-VIII (*d*) in Form No. 64 both in the year under report and for former years. Separate accounts of all expenditure excluded are, however, being maintained as usual by the District Forest-officer, Nilambúr, for the purpose of ascertaining at any time the exact financial results of the plantations.

The net results on 31st March 1886 under regular plantations show a planted area of 12,234 acres at a cost of Rs. 5,83,537, or about Rs. 48 per acre on an average. These results, as compared with those arrived at on 31st March 1885, are, of course, considerably affected by the large deduction made in the total cost of the Nilambúr plantations as explained in the preceding paragraph.

47. In accordance with the estimates duly sanctioned by Government (Board's Proceedings, No. $\frac{3205}{\text{Forest } 645}$, dated 23rd November 1885), 100 acres in Nilambúr have been cleared and prepared for planting with teak for coppice and Mahogany standards, the nurseries for which were fully stocked at the close of the official year. "Superior" and "measurable" saplings from Nilambúr are not in so much demand, and do not realize such good prices in comparison to their size as those of the smaller descriptions; but the demand on the whole is excellent and in excess of the supply. We propose to meet it by the extension of planting under "the coppice (teak) with standards (Mahogany)" system.

It is proposed to extend the padugai (river bank) plantations in Trichinopoly which have proved so successful, and to extend operations to similar areas in Tanjore. The casuarina plantations in South Arcot will also be steadily extended as funds admit.

The receipts by sales from plantations as distinct from natural forests are not now separately exhibited; but the results continue to more than justify our expectations.

In North Arcot, the Vanavedu plantation consisting of 31 acres of casuarina wood about 17 years old realized Rs. 3,940, or Rs. 131 per acre; whilst in South Canara, one acre of casuarina, about 12 years old, realized Rs. 620, all expenses of felling, conversion, and removal being in both cases borne by the purchasers.

48. *Cultural operations.*—The following is an abstract of cultural operations:—

District.	On 1st April 1885.		Added or excluded during the year.		On 31st March 1886.	
	Area.	Cost.	Area.	Cost.	Area.	Cost.
	ACS.	RS.	ACS.	RS.	ACS.	RS.
South Arcot	1,155	229	..	..	1,155	229
Trichinopoly	Miles 100	26,339	..	629	Miles 100	26,968
Tanjore	824	286	20	239	844	525
Tinnevelly	..	..	537	738	537	738
Total ..	1,979 100 miles of channel banks.	26,854	557	1,606	2,536 100 miles of channel banks.	28,460

The opening balance on 1st April both under area and cost agrees with the closing balance shown in the last report. The only addition during the year was in Tanjore, that shown against Tinnevelly being merely old areas (*e.g.*, the Kudiraimalai Teri, &c.).

transferred from " Regular plantations " in that district. The actual expenditure during the year amounted to only Rs. 868, that entered against Tinnevelly being the cost in previous years of the area transferred from " regular plantations."

The total area on 31st March 1886 is 2,536 acres and 100 miles of channel banks at a cost of Rs. 28,460, or about Annas 9 and Pies 5 per acre and about Rs. 270 per mile, respectively, compared with 1,979 acres and 100 miles of channel bank at a cost of Rs. 26,854 or Annas 4 and Pies 2 per acre and Rs. 263 per running mile as per last year's report.

49. The most important cultural operations during the year were those connected with the reclamation and planting of sandy wastes or " Teris" in Tinnevelly.

In the Kudiraimalai Teri 75,000 palmyra nuts were put down over an area of 110 acres, and 210 measures of seed of Odai (*Acacia planifrons*) were dibbled in over an area of 2 acres. The palmyras are reported not to have germinated well for want of sufficient rain, but those sown in former years are generally in a flourishing condition. These operations will be steadily extended.

50. *Topes.*—In Form No. 61 the topes are entered range by range for each district as recently sanctioned by Government. The following is an abstract thereof:—

District.	Number.	Area.	Cost	
			During year.	To end of year.
			RS.	RS.
Chingleput	7	79	242	7,278
North Arcot	663	653	875	875
South Arcot	94	394	..	8,712
Salem	228	2,564	5,359	1,90,140
Trichinopoly	16	62	56	1,714
Tanjore	16	153	..	..
Coimbatore (North)	183	14,022	175	28,561
Coimbatore (South)	8	113	221	5,737
Madura	21	99	1,294	11,894
Tinnevelly	30	108	432	3,629
Malabar { Wynaad and Pálghat. / Nilambúr	3	5	386	1,374
	..	..	..	..
South Canara	..	..	..	..
Total ..	1,269	18,252	9,040	2,59,914

As compared with the figures in the last report, the increase of 79 in the number of topes occurs in North Arcot, but the District Forest-officer is unable to state the corresponding increase in area which should be ascertained. There is an increase of 19 acres in total area (9 in Salem and 10 in Coimbatore, North,), but it is merely due to errors detected in the last report having been rectified. The increased cost during the year is due to expenditure in North Arcot, not separately given last year having been included this year, and to a heavy charge for tope watchers in Madura adjusted under A-VIII (*f*) in the preceding year having been rightly included under A-VIII (*d*) in the year under report.

The total cost up to the end of the year is made up as follows :—

	RS.
Cost as per last report	2,42,131
Cost up to the end of last year in South Arcot, now ascertained and included	8,712
Owing to rectification of errors in total last year—Salem.	+ 141
Do. do. Coimbatore (North).	— 110
Cost during the year	+ 9,040
Total ...	2,59,914

Cost per acre up to date is about Rs. 14.

The neglected state of the topes in some districts attracted the attention of the Conservator during the year and was brought to the notice of the Collector and District Forest-officer with, it is understood, good results.

Village officers must be held responsible for the care of such things, although they are managed in the Forest and not in the Revenue department.

51. The following is a summary of results under this section :—

District.	Area on 31st March 1886.				Actual cost during 1885-86.	
	Regular plantations.	Cultural operations.	Topes.	Total.	Regular plantations.	Cultural operations.
1	2	3	4	5	6	7
					Rs.	Rs.
Chingleput	532	..	79	611	1,393	..
North Arcot	1,803	..	653	2,456	6,814	..
South Arcot	1,506	1,155	394	3,055	7,939	..
Salem	..	..	2,564	2,564	..	..
Trichinopoly	3,757	Miles 100	62	3,819 Miles 100	2,959	629
Tanjore	734	844	153	1,731	2,717	239
Coimbatore (North)	97	..	14,022	14,119	631	..
Coimbatore (South)	19	..	113	132	..	..
Madura	39	..	99	138	278	..
Tinnevelly	..	537	108	645	..	..
Malabar { Wynaad and Pálghat	41	..	5	46	314	..
Malabar { Nilambúr	3,519	..	..	3,519	4,820	..
South Canara	185	..	..	185	654	..
Total ..	12,232	2,536 Miles 100	18,252	33,020 Miles 100	28,519	868

District.	Actual cost during 1885-86.—*continued.*		Cost up to the end of the year 1885-86.			
	Topes.	Total.	Regular plantations.	Cultural operations.	Topes.	Total.
	8	9	10	11	12	13
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Chingleput	242	1,635	28,076	..	7,278	35,356
North Arcot	875	7,689	1,04,181	..	875	1,05,056
South Arcot	..	7,939	89,914	229	8,712	98,855
Salem	5,359	5,359	..	..	1,90,140	1,90,140
Trichinopoly	56	3,644	76,167	26,968	1,714	1,04,849
Tanjore	..	2,956	8,161	525	..	8,686
Coimbatore (North)	175	806	30,078	..	28,561	58,639
Coimbatore (South)	221	221	4,402	..	5,737	10,139
Madura	1,294	1,572	7,734	..	11,894	19,628
Tinnevelly	432	432	..	738	3,629	4,367
Malabar { Wynaad and Pálghat	386	700	2,934	..	1,374	4,308
Malabar { Nilambúr	..	4,820	2,12,725	..	..	2,12,725
South Canara	..	654	19,163	..	..	19,163
Total ..	9,040	38,427	5,83,537	28,460	2,59,914	8,71,911

The total expenditure on regular plantations, cultural operations and topes during the year was Rs. 38,428 as entered in Form No. 64 which agrees with the amounts adjusted in the Examiner's office under the head A-VIII (*d*), Plantations.

52. The Conservator is, however, unable to give the assurance suggested by the Board in reviewing last year's report, that the figures as regards area and cost are even approximately correct. He can speak with some confidence as regards the old plantations of the Forest department, for which regular accounts have always been maintained, but not with regard to the plantations and topes inherited from the late Jungle Conservancy fund, the accounts for which are either not forthcoming or inaccurate.

District Forest-officers are endeavouring to ascertain and demarcate the actual areas and arrive at an approximate idea of the cost from the taluk records; but as both they, their range officers, and the tahsildars have their hands full with other work, this is no easy matter. It is however hoped that they will be able to arrive at sufficiently reliable figures during the current year which can be adopted and adhered to in future

(g). *Works of improvement.*

53. Works of improvement, such as construction of roads and buildings, &c., are treated of under other sections of this chapter specially intended for them. There is therefore very little to say under this head, except to allude to the work of fencing of reserves and miscellaneous works of improvement undertaken in the several districts which were as follow :—

District.	Description of work.	Number of miles.	Cost.
			Rs.
South Arcot	(1). Construction, of stone wall as fencing on one side of Annámalai.	4	2,000
Coïmbatore (North)	(1). Digging around and fencing block No. II of Archalúr village.	2⅝	304
	(2). Fencing Ellapálaiyam reserve	⅜	22
Malabar (Wynaad and Pálghat) ..	(1). Fencing the botanical garden at Manantoddy and digging a ditch.	1 17/44	329
	(2). Fencing and digging a ditch on both sides of the right of way from Wálayár village to Nadupadi forest from the Wálayár Railway station to the Pálghat-Coimbatore road.	3 143/880	644
	Total ..	11·55	3,299

Besides the above the usual cutting of creepers, lopping and trimming and pruning of trees in plantations, and other miscellaneous forest work has more or less received attention in all districts.

The drains in the old screw-pine swamp at Manantoddy were deepened, and it is gradually being reclaimed and converted into a flourishing sugar-cane garden.

(h) *Experiments and exotic trees.*—

54. Experiments with exotics were carried on as usual during the year, the District Forest Officers evincing considerable interest in them. The following are amongst the most important.

Mahogany.—Last September this seed was distributed by Mr. Lawson, Director of Government Cinchona Plantations, &c., to the marginally-noted officers, and in their Proceedings, dated 7th November last, No. $\frac{3074}{\text{Forest } 610}$, the Board of Revenue called upon the Conservator to report on the results of the experiments.

H. L. Wooldridge, Esq.—South Arcot.
H. A. Gass, Esq.—Madura.
C. E. Brasier, Esq.—Tinnevelly.
T. J. Ferguson, Esq.—Calicut.
J. Cameron, Esq.—Bangalore.
J. Steavenson, Esq.—Madras.
Colonel I. Campbell Walker—Ootacamund.
W. FitzGerald, Esq.—Travancore.

In South Arcot, only a few seeds germinated, but the seedlings are reported to be thriving well. In Madura, the seeds appear to have germinated admirably, and the young plants which have now all been transplanted into pots have grown very well. In Tinnevelly also the seeds have germinated and the plants are being distributed for planting in different places. In Travancore, Mr. FitzGerald appears to have distributed the seed among three other gentlemen, retaining some quantity himself. He raised 96 plants which are strong and healthy, while of the three other gentlemen, two have raised 20 and 6 plants, respectively, which are doing well, and the third states that he cannot give the result, having only recently sown the seeds.

In Bangalore, Mr. Cameron has raised 200 seedlings which have been potted off and are five inches in height.

Of the seeds received by Mr. Steavenson, 2,149 have germinated and the young plants are nearly ready for distribution. No report has been received from Mr. Ferguson. The seed supplied to the Conservator was handed over to Mr. Hadfield and has germinated splendidly at Nilambúr. So far as the results go, the experiment promises well, but it is too early to say whether it has succeeded or not.

During the year 168 mahogany seeds were obtained elsewhere and sown in the Vettangudi plantations by the District Forest officer, South Arcot. Eighty-five germinated, of which nine have died and the surviving 76 seedlings are from 12 to 21 inches in height.

Twelve mahogany plants were planted in Chingleput cusbah tope during the last rains. They are healthy and vigorous.

Eucalyptus seeds of three * sorts were received from the Director of Revenue Settlement and Agriculture and distributed to the marginally-named districts.† In North Arcot the seeds have germinated and the seedlings look healthy. In Tinnevelly one species germinated, while in Coimbatore (South) the seedlings have all died off before attaining the height of one inch. No report has been received from South Arcot.

* Eucalyptus Planchoniana.
Do. Microcorys.
Do. Baileyana.

† North Arcot. | Coimbatore (South.)
South Arcot. | Tinnevelly.

In Tinnevelly the District Forest officer tried 10 species of eucalypti and found *Rostrata* and *Citriodora* thrive well in the ghât forests of the district.

In Coimbatore (North) the *Eucalyptus Citriodora* at Talamalai referred to in the report for last year is thriving. There are 25 plants.

Pinus Australis.—Some quantity of this seed was received from the Conservator, Northern division, and tried in the districts of Chingleput, Tinnevelly and South Canara without success. In South Arcot, however, 9 seeds germinated in rich alluvial soil near the Vellar river bank and the seedlings look healthy.

Pithecolobium Saman.—In North Arcot 4,000 or 5,000 plants were raised and planted out at Kilminnel and Tiruvallam. They are doing well.

Manilla hemp (*Musa Textalis*).—Shoots were received during the year and 40 of them planted in Kulitalai and 10 in the compound of the District Forest office, Trichinopoly. There were only five casualties in all and the plants are vigorous and healthy, the stems being 4 to 5 feet in height on an average.

Phœnix dactylifera (*date palm*).—In the Tanjore district there was one casualty during the year at Védárnyam. The number of trees in the Vettangudi plantations is 177 and not 120 as reported last year. The condition of the trees in the above plantations was fully reported on by the Collector in his letter embodied in Board's Proceedings, dated 30th March 1886, No. $\frac{764}{\text{Forest } 149}$. Further experiments with seed and offshoots are being made, and there is every reason to anticipate success.

Rhus vernicifera (*Japanese lacquer tree*).—Of the two plants reported to be alive last year in Madura one has since died, and the survivor is only $1\frac{1}{2}$ inches high.

Evodia meliæfolia (*Maipak*) seed was tried in Madura and Wynaad and Pálghat at the request of the Conservator, Northern division. It germinated indifferently in the former district. In the latter it totally failed, and the District Forest officer suspects that it was on account of the seed having been bad. Seed was distributed also to South Arcot and Nilambúr, but no report has been received from the District Forest officers.

In the botanical garden at Manantoddy, a large number of timber and fruit trees have been planted during the year and reported to be growing well.

The Giant Bamboos (*Dendrocalamus Brandisii*) have made the most remarkable growth. The bamboos promise well generally. About two acres were planted with giant bamboos and mahogany.

Three plants of *Hevea Braziliensis* were received from Mr. Ferguson, of Calicut, and are growing well. The Castilloa planted out in September grew vigorously, but was eaten down by stray cattle, and, though alive, it has as yet shown no signs of recovery.

The reclaimed swamp at the bottom of the hill was planted with sugar-cane and produced a splendid crop.

The experimental cultivation of the rubber plants through private agency has been ordered to be discontinued.

The experiments with exotics at Nilambúr continue to prove successful and are both interesting and instructive. Mr. Lawson visited the plantation during the year and was much pleased with the growth of the ipecacuanha. The District Forest officer sends the usual statements showing comparative growth of the mahogany trees and South American Indian rubbers. The former will be found below with the District Forest officer's notes regarding the Landolphia, &c.:—

"The following statement shows comparative growth of a few of the largest mahoganies, of which there are about 3,000 now alive out of those planted in 1878 and 1879 in Ayiravillikava and Ramalur. About 1,000 died last year and about 100 died this year having been repeatedly attacked by the borer (Family Pyralidace) :—

When planted.	Number.	Height when planted.	Measurement in April 1885.			Present measurement.		
			Height.	Circumference.		Height.	Circumference.	
				At base.	Five feet up.		At base.	Five feet up.
		INCHES.	FEET.	INCHES.	INCHES.	FEET.	INCHES.	INCHES.
September 1873	1	Situ	67	50	37	69	52	41
June 1878	2	6	28	20	15½	30	21	16½
October 1879	3	6	19	11¾	8	19½	12	8
	4	6	19	12½	9¾	20½	14½	11¾
	5	6	20	15¾	10½	25	17½	12½
	6	6	21	12¼	9	23	16	15
	7	6	20	16	12¾	23	18	14¾
	8	6	18	12	10	20	15	11

No. 1 is an exception. It is a magnificent tree in the Chathamboria teak plantation of 1873.

"*The South American India Rubber.*—These have ceased to be experiments from last year as they have established themselves. We have trees 8 years' old which yield very little milk when tapped. The Cearas planted in 1878, 1880 and 1881 seeded for the past few years. About 200 seers of seed were collected last year, and this will be sent to Mr. Morgan, District Forest officer, Wynaad and Pálghat, as he has applied for the same.

"*Landolphia Florida.*—The existing 1 plant now measured 18'—5" showing a growth of 11'—11" since last annual report.

"*Cephaelis Ipecacuanha.*—There are in all 23 plants now, 4 of which are sickly, and I don't think they will come to anything. Nineteen are doing fairly well.

"Professor Lawson, the Director of Government Cinchona Plantations, on his return from Calicut lately stayed a day at Nilambúr and inspected the exotic plantations. He was surprised to see the ipecacuanha plants doing so well.

Yellow Bamboos.—This clump is doing very fairly. I tried 12 cuttings from it this year, of which only two came on. As far as I have seen, this bamboo does not compare favorably in the size of its culms with the indigenous species.

"*Giant Bamboo* (*Dendrocalamus Brandisii*).—This clump is growing luxuriantly and the root stock planted out year before last is also doing fairly well in the bungalow compound."

(i) *Communications and Buildings.*

55. The following statement exhibits the important roads and bridges, constructed and repaired during the year :—

Roads.

District.	New Roads.	Cost.	Repairs.	Cost.
		RS.		RS.
Chingleput	Construction of portion of Kámbákam road.	216	....	..
North Arcot	....	..	Repaired all existing roads	371
South Arcot	(1). Nochikadu plantation tramway, 1½ miles.	847	Repairs, &c.	5
	(2). Bridle road up the Ténmalai, 1½ miles.	477	....	..
Salem	....	..	Repairs of Ayyúr Melgiri road	103
Coimbatore (South) ..	Certain new paths and old roads opened out.	324	(1). Repairing the road from Vellaragu Adiváram to Sangam, 8½ miles, and repairing 45 bridges.	1,245
			(2). Two miles bridle-path from Tunakadavu river to Poonáchi.	657
Tinnevelly	(1). Construction of two bridges on the Kalakád ghât road.	368	Repairing Kalakád ghât road	121
	(2). Reclearing 2½ miles of Vásudévanallúr ghât road.	147	....	..
	(3). Tracing of 3 miles of road up the Kadayanallúr ghât.	298	....	..
Malabar, (Wynaad and Pálghat).	A drag-path of 1,200 yards long and 6 feet broad in the Chenar river.	25	....	..
	Total ..	2,702	Total ..	2,502

Expenditure on petty repairs, &c., is omitted in the above abstract. Fair progress has been made in Tinnevelly in the tracing and construction of new roads. In

almost all other districts the outlay has been principally on repairs. Rs. 7,000, or nearly two-thirds of the budget allotment, has been expended in the whole circle, which is satisfactory.

56. *Buildings.*—The following statement exhibits the buildings constructed, &c., during the year so far as they are ascertainable from district reports :—

District.	New buildings.	Cost.	Repairs to existing buildings.	Cost.
		Rs.		Rs.
Chingleput	....	..	Repairing forest bungalows at Kámbákam and at Maiyúr plantation and 3 tannah sheds.	71
North Arcot ..	Construction of temporary out-houses at Mandaparai.	300	Repaired and whitewashed all existing buildings.	771
South Arcot ..	Completion of Ténmalai rest-house ..	250	Repairs, &c...	103
Salem	....	..	Repairing Mallapuram and Hasthampatti bungalows and Tirupatúr and Námakal Range offices.	785
Trichinopoly ..	Tool-sheds one at Lálápet and the other at Kattalai.	160	Three bungalows repaired and whitewashed.	75
Coimbatore (North).	Three camp huts completed at Tellamalai, Támarakarai and Guttialatúr.	..	Repaired sandalwood store at Satyamangalam and a thatced building in Bilúr.	
	A small thatched building erected in the Ellapalaiyam reserve in Erode.	..	....	
Coimbatore (South).	A bungalow and ranger's house at Mount Stuart in course of construction.	..	....	
	A Forester's house at Sétumadai ..	..	....	
	Two Forest guards' houses and 2 tannahs completed.	..	....	
Madura	(1). One bullock shed at Kodaikánal ..	90	Ranger's office, Periyakulam, and depôt-keeper's house.	..
	(2). Three rest-houses	195	....	
	(3). Five tannadars' huts..	75	....	
Tinnevelly	Construction of a new compartment to the depôt at Ambásamudram.	124	Repairing the rest-house and tannah station.	362
			Repairing the walls of the depôt compound at Ambásamudram.	18
	Rs. A. P.			
Malabar (Wynaad and Pálghat).	*Permanent.*—One main building with portico and glazed verandah and stables, a forester's serambi and elephant shed at Begúr and huts at Kuppadi and Karimalai 3,114 6 0		....	
	Temporary.—Two elephant sheds and two punthis at Chedlet and Bégúr and a cattle shed at Bégúr .. 288 6 7		....	
		3,402		
South Canara ..	(1). Tanna station at Jeppu	75		
	Total ..	4,671	Total ..	2,185

Considerable progress has been made in Malabar (Wynaad and Pálghat) and in Coimbatore (South) in the construction of new buildings. The budget allotment, Rs. 13,846, has been exceeded by Rs. 225 for the whole circle, which has been met by transfers (savings) from other heads of expenditure.

CHAPTER V.

Yield and Working.

Section I—Departmental operations.

57. The annual timber returns received from some districts are in many instance carelessly and erroneously prepared, which has involved much heavy work in the Conservator's office in order to reconcile the entries.

Under the present system, the Conservator knows nothing of the monthly timber and stock returns which go to the Examiner, whilst the Examiner's office is not charged with the checking and compilation of the annual statements. This will have to be altered and the Account office be required to furnish Conservators with correct and accepted figures as for the financial results (forms Nos. 64, 65 and 66).

58. The following is an abstract of Form No. 68 compiled as accurately as practicable :—

Number of trees felled by Government agency.

Selection fellings—	NO.
Teak	1,873
Blackwood	79
Véngai	299
Red Sanders	3
Miscellaneous timbers	8,887
Sandalwood	40

These results cannot, with any degree of fairness, be compared with those of the past year, as they do not fully represent the year's operations.

1,396 teak trees were felled in Wynaad and 223 in Nilambúr and 85 in Coimbatore (South). Seventy-one trees of Rosewood in South Canara, 5,100 timber trees of miscellaneous descriptions in Chingleput, and 238 of Véngai in South Arcot appear to have been cut during the year. In the last-named district, 40 Sandalwood trees were felled. In Coimbatore (North) there have been no departmental felling operations during the year (except 9 teak trees).

59. Form No. 69 shows the timber and other produce cut and collected by Government agency and their disposal by sale, removal to depôts or otherwise. The following abstract exhibits the quantities of the several descriptions of produce collected during the year :—

District.	Teak.	Black-wood.	Véngai.	Red Sanders.	Miscella-neous timber.	Sandal-wood.	Fuel.	Minor produce.	Bamboos
	C. FT.	C. FT.	C. FT.	TONS. LB.	C. FT.	TONS. LB.	TONS. LB.	TONS. LB.	No.
Chingleput	..	..	..	153⅓	..	..	..	..	..
North Arcot ..	..	..	..	121	..	11 812	1,956 1,458	0 50	..
South Arcot ..	..	..	1,393	..	6,680	2 376½	920 378	6 1,324	..
Salem	..	..	78⅓	..	1,995⅚	9 2,199	..	0 32	..
Trichinopoly ..	..	..	..	..	..	..	3,205 551	2 160	515
Coimbatore (North).	40½	..	..	..	..	0 1,995	..	..	..
Coimbatore (South).	11,789	..	..	..	325	..	471 0	8 1,820	2,000
Madura	..	..	200	..	91	..	306 853	3 537	..
Tinnevelly ..	..	..	..	..	3,346	..	..	14 804	..
Malabar. Wynaad and Pálghat.	58,281	5,067	1,110	..	6,150	..	3,230 0	0 502	36,457
Malabar. Nilambur ..	12,774	663	6,968	..	29,324	..	11 1,120	..	25,256
South Canara ..	828¾	..	..	..	..	..	32 1,120	33 105	..
Total ..	83,713¼	5,730	9,749⅓	274⅓	47,911⅚	24 902½	10,133 1,000	68 854	64,228

60. In accordance with Board's Proceedings, dated 15th December 1884, No. $\frac{4317}{\text{Forest } 452}$, specimens of timber were sent to the Superintendent of Public Works Workshops from the districts of Tinnevelly, Madura and Salem, and presumably from Malabar and Coimbatore. The result of experiments to test their value is not known. There has been hardly any supply to the Public Works Department, the rates offered by them being below those obtainable in the open local markets. In Trichinopoly 55 casuarina trees, 195 casuarina poles and 28 babul logs were supplied.

The Executive Engineer, Presidency division, offered to take 5,900 cubic feet of timber, but cancelled the indent, the works for which it was required having been held in abeyance.

61. *Fuel.*—The collection of fuel amounted to 10,133 tons and 1,000 lb., which together with the opening balance of 401 tons and 2,182 lb., amounted to 10,535 tons and 942 lb.; 1,683 tons and 257 lb. were removed to sale depôts, 5,321 tons and 854 lb. sold locally and 2,636 tons and 1,140 lb. to the Railway Companies.* The balance in the forests was 894 tons and 931 lb. The largest quantity was collected in Wynaad and Pálghat division and Trichinopoly.

	TONS.	LB.
* Madras Railway	900	1,493
South Indian Railway ...	1,735	1,887

62. *Bamboos.*—64,228 bamboos were cut and collected during the year chiefly in Wynaad, Pálghat and Nilambúr; 20,170 were removed to sale depôts, 24,081 sold and 19,977 left in the forests.

63. *Minor produce.*—The departmental collections of the year, as far as can be ascertained from the returns, were 68 tons and 854 lb. which, added to an opening balance of 1 ton and 1,974 lb., gives 70 tons 588 lb. 53 tons and 1,439 lb. were sold, 14 tons 1,174 lb. removed to depôts, &c., and 2 tons 215 lb. left in forests.

64. Form No. 70 shows the receipts and issues of timber and other produce in and from sale depôts. The following is an abstract of the year's operations in the whole circle :—

Description.	On hand at beginning of year.	Received in depôt.	Sold in depôt or otherwise disposed of.	Balance at close of year.
	C. FT.	C. FT.	C. FT.	C. FT.
Teak	10,572 5/12	16,993½	17,895⅓	9,670¾
	NO.	NO.	NO.	NO.
Teak saplings	839	53,641	54,361	119
	C. FT.	C. FT.	C. FT.	C. FT.
Black or Rosewood	6,163	685½	2,472	4,376½
Véngai	2	7,747½	7,671	78½
Miscellaneous timbers	1,359¼	3,8531⅓	36,350 7/12	3,540¼
	TONS. LB.	TONS. LB.	TONS. LB.	
Red sanders	95 1,960	121 0	216 1,960	..
				TONS. LB.
Sandalwood	51 1,229	23 342½	59 1,169½	15 402
Fuel	303 274	1,683 257	1,641 170	345 361
	NO.	NO.	NO.	
Bamboos	105	20,170	20,275	..
	TONS. LB.	TONS. LB	TONS. LB.	TONS. LB.
Minor produce	11 358	14 1,075 20/40	25 707 28/40	0 726

Of teak, 5,112 and 12,774 cubic feet were sold in Wynaad and Pálghat, and Nilambúr, respectively, while of véngai 6,968 cubic feet and 703 cubic feet were sold in Nilambúr and South Arcot, respectively; 29,324 cubic feet of miscellaneous timbers were sold in Nilambúr and 2,769 cubic feet in South Arcot. The largest sales of fuel were in Trichinopoly, amounting to 1,189 tons and 1,655 lb., chiefly to the South Indian Railway Company.

Of the minor produce, a quantity of 24½ tons of gallnuts (Beleric myrabolams) collected in the Tinnevelly district was shipped to London to ascertain the market-value; the result is not yet known.

65. Form No. 71 shows the particulars of sales from the forests as well as from depôts and the amounts realized. The following is an abstract of the amounts realized under each budget sub-head as compared with 1884-85 :—

Particulars.	1885-86.		1884-85.	
	Sold from forests.	Sold from depôts.	Sold from forests.	Sold from depôts.
	RS. A. P.	RS. A. P.	RS.	RS.
I (*a*)	39,185 12 3	95,495 9 4	1,02,705	38,075
I (*b*)	23,809 15 1	6,967 0 9	3,865	23,570
I, (*c*)	476 2 2	668 6 0	1,154	154
I (*d*)	2,300 0 0	13,972 2 11	8,586	7,221
I (*e*)	13,263 14 4	44 6 9	19,458	9,125
Total ..	79,035 11 10	1,17,147 9 9	1,35,768	78,145

The decrease of Rs. 17,730 is owing to the restricted collection of sandalwood and minor produce by departmental agency and to our officers having been chiefly engaged in demarcation and settlement work.

66. Subjoined abstract exhibits the operations of the year under timber and other produce embracing the quantities collected and sold in the forests as well as those received into depôts and sold therefrom :—

—	Teak.	Teak saplings.	Rose-wood.	Véngai.	Miscella-neous timbers.	Redwood.	Sandal-wood.	Fuel.	Bam-boos.	Minor produce.
Balance on 1st April 1885	C. FT. 31,256	NO. 10,082	C. FT. 7,372	C. FT. 1,511	C. FT. 5,931	TONS. LB. 95 1,960	TONS. LB. 51 1,229	TONS. LB. 705 216	NO. 105	TONS. LB. 13 92
Collected during the year	83,713	51,504	5,730	9,749	71,586	274 747	24 902	10,133 1,000	64,228	68 854
	1,14,969	61,586	13,102	11,260	77,517	369 2,707	75 2,131	10,838 1,216	64,333	81 946
Sold in forests ..	48,229	..	5,018	2,051	12,398	153 747	1 560	5,321 854	24,081	53 1,439
Sold in depôts ..	17,895	54,080	2,472	7,671	34,604	216 1,960	59 497	1,595 646	20,110	0 233
Otherwise disposed of.	589	281	..	961	3,647	..	0 672	2,682 664	165	25 573
	66,713	54,361	7,490	10,683	50,649	369 2,707	60 1,729	9,598 2,164	44,356	79 5
Balance on 31st March 1886	48,256	7,225	5,612	577	26,868	..	15 402	1,239 1,292	19,977	2 941

67. Form No. 73 exhibits the difference in value between the stock on hand at the beginning and close of the year in sale depôts. Subjoined is an abstract thereof:—

District.	Valuation of stock		Difference	
	At the commencement of the year.	At the close of the year.	In favor of the year.	Against the year.
	Rs.	Rs.	Rs.	Rs.
Chingleput	..	..	..	..
North Arcot	2,487	1,230	..	1,257
South Arcot	225	446	221	..
Salem	15,215	1,322	..	13,893
Trichinopoly	107	312	205	..
Tanjore	..	..	..	..
Coimbatore (North)	..	279	279	..
Coimbatore (South)	11,067	8,728	..	2,339
Madura	469	265	..	204
Tinnevelly	547	1,389	842	..
Malabar.. Wynaad and Pálghat ..	..	..	..	..
Malabar.. Nilambúr	1,404	56	..	1,348
South Canara	1,262	1,992	730	..
Total ..	32,783	16,019	..	16,764

68. The annual return of stores (No. 16) is not submitted for the year under report as the compilation of one as required by the Board is not possible in the present state in which this form is received from district officers. The opening balances in most cases do not agree with the closing balances of the previous year. The rates and value are either not given or given incorrectly. The form itself is defective and not suited as an appendix to the annual report. A revised form No. 73 B has been proposed for adoption by the Code Committee and is now with the Forest Member of the Board. The return for the current year will, it is hoped, be submitted in the new form.

Section 2—Removals of produce by purchasers.

69. Form No. 72 shows the produce cut, collected and removed from forests by consumers or purchasers, of which the following is an abstract:—

District.	Timber (Miscellaneous).		Firewood.		Bamboos.			Minor produce.	
	C. ft.	No.	Tons.	Lb.	Tons.	Lb.	No.	Tons.	Lb.
Chingleput	87,050	..	11,851	1,120	..		196	29	1,120
North Arcot	3,68,872	540	39,066	379	4,509	0	..	793	560
South Arcot	23,616	586	6,265	0	1,349	0	12	2,040	672
Salem	1,16,106	..	24,244	1,568	11,144	336	..	..	
Trichinopoly	39,468	..	8,983	1,485	1,452	224	637	485	1,568
Tanjore	..	..	..		..		..	..	
Coimbatore (North)	46,797	..	5,638	0	3,419	0	..	..	
Coimbatore (South)	53,147	..	11,319	0	3,027	1,120	..	..	
Madura	92,516	..	15,194	728	846	224	..	7	1,736
Tinnevelly	25,958	..	2,494	2,120	..		..	..	
Malabar.. Wynaad and Pálghat ..	..	..	..		..		..	242	0
Malabar.. Nilambúr	..	..	..		..		13,022	..	
South Canara	772	..	7,523	0	..		53,998	..	
Total ..	854,302	1,126	132,580	680	25,746	1,904	67,865	3,598	176

The sales of miscellaneous timbers and firewood exceed those of 1884-85 by 195,152 cubic feet and 1,600 tons, respectively.

Ten thousand three hundred and ninety-six tons and 388 lb. of engine fuel were supplied to the Madras Railway Company in the districts of North Arcot and Salem, realizing Rs. 19,557 as seigniorage against 5,636 tons and Rs. 10,291, respectively, in the preceding year.

70. The subjoined statement exhibits the financial results under each sub-head as compared with 1884-85:—

	1884-85.	1885-86.
	RS.	RS.
II (*a*)	66,010	72,864
II (*b*)	1,39,750	1,65,332
II (*c*)	57,835	57,395
II (*d*)	8,227	7,914
II (*e*)	1,19,862	1,35,443
Total ...	3,91,684	4,38,948

The revenue of the year under report under this section exceeds that of 1884-85 by Rs. 47,264. The increase is mainly due to larger removals of firewood and minor produce on seigniorage, the result of greater facilities and development of the seigniorage permit system and minor produce contracts.

The following abstract gives variations in the revenues realized under all the sub-heads in each district as compared with last year:—

District.	1884-85.	1885-86.	Difference.
	RS.	RS.	RS.
Chingleput	12,550	14,316	+ 1,766
North Arcot	62,616	85,745	+ 23,129
South Arcot	13,763	26,965	+ 13,202
Salem	1,04,914	1,09,444	+ 4,530
Trichinopoly	25,364	19,870	— 5,494
Tanjore	6,078	7,310	+ 1,232
Coimbatore (North)	39,334	42,515	+ 3,181
Coimbatore (South)	35,736	34,025	— 1,711
Madura	31,321	32,942	+ 1,621
Tinnevelly	38,630	36,699	— 1,931
Malabar .. Wynaad and Pálghat	..	3,203	+ 3,203
Malabar .. Nilambúr	..	391	+ 391
South Canara	21,378	25,523	+ 4,145
Total ..	3,91,684	4,38,948	+ 47,264

The falling off in Trichinopoly is counterbalanced by larger receipts from direct departmental operations in firewood, &c.

Section 3—Free grants of Forest produce.

71. The following statement shows the removal of timber and other produce during the year on free permits issued by or under the authority of the District Forest officers:—

District.	Timber.		Firewood.	Bamboos.	
	Building purposes.	Agricultural purposes.	Agricultural and domestic and for manufacture of jaggery.	Building purposes.	Agricultural purposes.
	Quantity.	Quantity.	Quantity.	Quantity.	Quantity.
	C. FT.	C. FT.	TONS. LB.	TONS. LB.	TONS. LB.
Chingleput	175	..	..	..	..
South Arcot	19,200	..	5 0	..	..
Salem	2,535	..	..	59 392	..
Madura	1,926	506	..	6 0	..
Total ..	23,836	506	5 0	65 392	..

The floods of 1884 destroyed numerous houses in South Arcot and necessitated the grant of 19,200 cubic feet of timber. The other grants are petty. Villagers have, as a rule, been permitted to supply their own requirements in the shape of firewood, bamboos, &c., from unreserved lands free of charge and without any permits being required.

CHAPTER VI.

FINANCIAL RESULTS.

—	Revenue.	Expenditure.		Total.
		A. Conservancy.	B. Establishment.	
	RS.	RS.	RS.	RS.
1884-85 ..	6,25,492	2,09,344	2,87,579	4,96,923
1885-86 ..	6,52,318	2,34,006	3,00,608	5,34,614
Difference .	+ 26,826	+ 24,662	+ 13,029	+ 37,691

72. The total revenue and expenditure of the circle during the past official year, as exhibited in form No. 64 furnished by the Examiner of Forest Accounts, an abstract of which is given in the margin, exhibit an increase in both compared with the figures for 1884-85.

73. Under revenue the chief variations appear under the sub-heads noted below:—

	RS.
I (*a*). Timber	— 6,100
I (*e*). Grass, &c.	— 15,275
II (*a*). Timber	+ 6,852
II (*b*). Firewood, &c.	+ 25,582
II (*e*). Other minor produce	+ 15,583

74. Under expenditure there is an aggregate increase of Rs. 37,691, of which Rs. 24,662 appear under "A. Conservancy and works" and Rs. 13,029 under "B. Establishments."

The unadjusted balance of Rs. 17,697 referred to in last report as having been added to the actuals of 1884-85 under A. "Conservancy and works" has since been transferred to the accounts of 1885-86 and is included in the expenditure of that year in accordance with a final ruling of the Accountant-General.

The increase of expenditure under A. "Conservancy and works" is distributed under the sub-heads shown in the margin.

	RS.
I (*a*). Timber	+ 7,827
I (*d*). Sandalwood	— 3,591
I (*e*). Grass, &c.	+ 6,162
II. Timber	+ 11,625
VIII (*e*). Protection from fire ...	+ 5,755

The increase under A-I (*a*) represents chiefly the larger expenditure incurred on the collection of teak saplings in Nilambúr and the cost of felling teak, &c., in the leased forest on the Anaimalais, Coimbatore (South). That under I (*e*) is due to large payments made in South Canara for the collection of minor produce. The saving under I (*d*) is due to the collection of sandalwood having been restricted under orders of the Conservator. The expenditure under II has increased owing to the enhanced scale of temporary establishments sanctioned for the year, and increased commission to permit-issuing officials in proportion to the improved revenue credited under the corresponding head of revenue. The increased expenditure under VIII (*e*) arises from additional areas having been brought under fire conservancy during the year.

The additional expenditure under B. Establishments and contingencies is due (1) to increment to Conservator's pay, (2) payment of acting allowances to certain officers, (3) gradual increase in the scale of subordinate establishments, (4) increase of travelling allowances, (5) hiring of a new building on Rs. 225 per month for the occupation of the Central offices, (6) purchase of office furniture in certain districts, and (7) increased expenditure on account of Forest Settlement offices.

75. The true financial results of (*a*) departmental working, (*b*) removals under permit system, and (*c*) expenditure on protection and improvement of forests are shown in form No. 67, of which the following is an abstract:—

Timber, &c., removed by Government Agency.		Other revenue.		Formation, protection and improvement of forests.		Total.	
Receipts.	Charges.	Receipts.	Charges.	Receipts.	Charges.	Receipts.	Charges.
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1,97,195	1,53,649	4,55,123	2,46,012	..	1,34,953	6,52,318	5,34,614

It will be seen that the charges both under "A. Conservancy and works" and "B. Establishment" amount to 78 per cent. on the revenue from departmental working and 54 per cent. on that realized under the permit system. The advantage as regards conservancy and improvement of the forests under the former as compared with the latter system are, however, great, and as our officers have more time to devote to their strictly professional duties and a class of responsible middlemen grows up, as it doubtless will, the charges will decrease and the net revenue be augmented.

76. The net surplus of receipts over expenditure is Rs. 1,17,704 as compared with Rs. 1,28,569 in the previous year, the estimated surplus as per regular estimate having been Rs. 85,800. The revenue in Coimbatore, South Arcot and South Canara fell considerably short of the estimates, whilst that in Malabar (Nilambúr) and North Arcot exceeded them, the net result being a short revenue as compared with the regular estimate of Rs. 47,682. The revenue would have been fully up to the estimate had it not been for delay in promulgation of new seigniorage rates and grazing fees and in crediting tree rents to forests.

	Revenue.	Expenditure.	Net surplus.
	Rs.	Rs.	Rs.
1884-85 ...	6,25,492	4,96,923	+ 1,28,569
1885-86 ...	6,52,318	5,34,614	+ 1,17,704

The expenditure fell short of the regular estimate by Rs. 79,586, due to the strictest economy having been enjoined in accordance with the orders of Government, and to departmental operations in the forests being restricted through the attention and time of the Forest officers of all ranks being chiefly directed to the selection and settlement of reserved forests.

The short expenditure was mainly in Coimbatore and South Canara, which are also the districts in which the revenue was considerably below the estimates.

The revenue in three districts, viz., North Arcot, Salem and Malabar, exceeded a lakh of rupees for each, whilst in Coimbatore it fell below that amount from exceptional causes.

77. *Outstandings and liabilities on account of contractors and disbursers.*—The details relating to the outstanding advances of the circle will be found in form No. 65. The opening balance, total advances made and recovered during the year and the balance to be accounted for are shown in the margin.

	Rs.	A.	P.
Total unadjusted balance on the 31st March 1885 as per paragraph 256 of the report for 1884-85	17,697	9	0
Add cash balance on hand in South Canara since transferred to outstanding advances	328	2	6
Total opening balance ...	18,025	11	6
Advances made during the year	2,74,120	9	3
	2,92,146	4	9
Deduct recoveries made during the year	2,65,754	4	4
Balance to be accounted for ...	26,392	0	5

78. *Outstandings on account of revenue.*—The particulars relating to outstandings on account of revenue appear in form No. 66. The year commenced with an outstanding revenue, due to the department, of Rs. 30,051, of which the only large item Rs. 26,135 appears in Coimbatore (North). It represents a legacy in the shape of arrears of tax on fruit trees due from faslis 1280 to 1294 (A.D. 1870 to 1884) handed over to us by the late Jungle Conservancy Department. The District Forest officer reports that application has been made to the Board for permission to write off Rs. 17,348 of the above sum, the parties by whom it is due being either dead or reduced to poverty by the late famine. No such application has, however, passed through this office. Further information is being called for.

The closing balance due to the department amounts to Rs. 33,300-12-1. Deducting the amount referred to as irrecoverable there is only a small balance of Rs. 16,000 chiefly appertaining to the closing months of the past year.

CHAPTER VII.

General Remarks.

79. *Superior and subordinate staff.*—Owing to paucity of officers in the superior staff to hold district and sub-division charges during absence of officers on leave or otherwise, two additional appointments in the grade of Sub-Assistant Conservators have been sanctioned, and it has been directed that all candidates for that class, whether selected from the ranks of Forest rangers or appointed direct, must in future undergo a course of training at the Dehra Dún Forest school and obtain a certificate of competence. The appointments had, however, not been filled up by the close of the year, as it is very difficult to find suitable candidates, especially amongst respectable natives, to whom a forest life is, as a rule, uncongenial.

80. *Forest Settlement-officers.*—Mr. Wolfe-Murray, C.S., was engaged on settlement work in Salem throughout the year in which good progress was made. He has also been appointed Forest Settlement officer for South Arcot and for some blocks in North Arcot, the original settlement of which was quashed by the Appellate Courts.

Mr. Castlestuart Stuart continued the settlement work in Wynaad, where numerous and complicated claims were preferred, most of which were approaching disposal at the close of the year.

The settlement of the Kanót forest was deferred on account of want of a map.

Mr Pinto, Deputy Collector, was appointed an additional Forest Settlement officer in March, and at once proceeded with the settlement of certain forests in Chingleput, already notified. These have been completed and Mr. Pinto is now at work in Tinnevelly.

Divisional officers (Revenue Department) were employed as Forest Settlement officers in Madura and Trichinopoly and made some progress.

The Collector of South Arcot represented that it was impossible for Divisional officers to attend properly to forest settlement work without detriment to their ordinary revenue and magisterial duties—an opinion fully shared by the Conservator.

81. *Forest conservancy in Tanjore.*—Financial considerations rendered a change in the administration of the Tanjore district indispensable. The Sub-Assistant Conservator, Mr. Carroll, who was in charge of the district, was transferred to Salem, and a Forester (1st grade) placed in charge of the Vettangudi forests under the orders of the District Forest officer, South Arcot, and the Collector of the Tanjore district.

A second Forester (1st grade) has since been appointed to assist the Divisional Revenue officers in the selection of areas to be reserved in the southern taluks. As soon as circumstances admit a Sub-Assistant Conservator or qualified Ranger will be sent to the district and the work of settlement and constitution of reserved forests be proceeded with.

82. *Forest school.*—Mr. Howell, Probationary Sub-Assistant Conservator, and Forester Maduranayagam Pillai obtained the Rangers' certificate at the Forest school, the former officer taking a high place at the final examination and securing several prizes. He returned from the school in March and has been posted to the Wynaad sub-division. The Forester visited the Central Provinces on his way back to study the system of fire-protection in force there, but was unfortunately rather late, the fire season having been nearly over. He has been promoted to the Rangers' class, 4th grade, and posted to Coimbatore (South).

Six students were sent to the school in the year under report and their progress is reported to be satisfactory.

A suggestion was made by the Director of Public Instruction to train men for the subordinate grades of the department at Saidápet, but after due consideration it was negatived.

83. *Rules under Act V of* 1882 (*The Madras Forest Act*).—Some important revisions and alterations were made during the year in the rules under section 26.

The timber transit rules under section 35 in the districts of Tinnevelly, Malabar and South Canara worked smoothly during the year, and, so far as the Conservator is aware, no hardship resulted from their operation. Reports regarding them were submitted, and it is proposed to limit their scope to definite areas to be scheduled.

As regards rules under section 63, (*a*) it is believed that the power to compound offences has not been abused and is found very useful in settling with petty offenders without the intervention of the magistracy. (*b*) The rules for Forest Settlement officers were adhered to and amendments brought to notice in practical working submitted for approval. (*c*) The grant of rewards to informers appears not to be fully understood by the subordinate magistracy in some districts.

The question of republishing the Act and all forest rules in the shape of a handy manual is under consideration.

The departmental code came into force on 1st April 1885; several amendments have since been made.

84. *The giant-riding saw machine* was tried in the North Arcot and Trichinopoly districts with indifferent success, the outturn of work comparing unfavorably with that of two men using the ordinary native saw.

It is now being worked in South Arcot with better results and is found more adapted for the conversion of medium-sized logs than for billet firewood.

85. *Exhibition.*—Specimens of economic products were collected and despatched to the Government of India for the Colonial and Indian Exhibition and an exhaustive catalogue was prepared.

86. *Service books.*—G.O., dated 22nd February 1886, No. 396, Public, regarding service books was received too late to enable District Forest officers to furnish the report called for with their annual reports for the past year. It will, however, receive attention in submitting the report for the current year.

87. *Maps.*—Good maps are still our great want, and it is hoped that measures will shortly be adopted to furnish them either by the Madras Revenue Survey Department or the Topographical Survey of India.

A map of the Salem district, prepared by the District Forest officer, showing the range and sub-charges, beats, &c., accompanies the report as appendix II.

88. *Boundary disputes.*—The Sivagiri claim (Tinnevelly district) was, it is understood, decided in favor of Government, but no copy of the decree has reached the Conservator.

The Singampatti (Tinnevelly) and Attipadi (Malabar) suits went against Government. An appeal to the Privy Council in the former is under consideration, and in the latter the transfer of the valley to the Coimbatore district and acquisition under the Forest Act of the areas which it is absolutely necessary to protect on the head waters of the Bhaváni and Siruvani rivers have been ordered.

The appeals against the Forest Settlement officer's decisions with regard to the Chenat Nair forest (Malabar) were dismissed, but too late to admit of its notification under section 16 before the close of the year.

Other appeals and suits in connection with forest settlement are pending, and the question as to finality of decisions by Appellate Courts will have to be settled and, if necessary, the Act amended.

The Board and Government have decided that we are bound by the Survey Deputy Superintendent's revisions in respect of the Kalroyen hill cases (South Arcot), by which we lose a considerable area of hill forest hitherto in our possession.

89. *Health of establishment.*—The health of the officers of the superior staff was fairly good, but Messrs. Morgan and Stanbrough had to avail themselves of privilege leave on medical certificate.

The subordinate staff suffered severely, fire-protection operations requiring constant exposure in the hottest and worst feverish months which formerly were those of comparative rest.

Six deaths occurred in Coimbatore (North) including that of one Ranger, five in Malabar (Wynaad and Pálghat) and fifty (coolies) in Nilambúr from an outbreak of cholera.

The establishments in the Wynaad, Nilambúr, Ánaimalais, Pachamalais and Javádis were prostrated from fever, whilst those in Madura and Coimbatore (North) fared little better.

Every endeavour is being made to secure the health of the establishment by building good houses, sinking wells, supply of medicines, &c., but fever must always be more or less prevalent in the forests, and our Range and Sub-Range officers and guards, &c., often neglect reasonable precautions and neither eat, drink, nor clothe themselves properly.

90. *Administration of the department generally.*—The work in the Conservator's office and all districts was still carried on at high pressure and good progress has, on the whole, been made.

In forwarding the District Forest officers' administration reports, the Collectors of Trichinopoly and South Canara make the following remarks:—

Trichinopoly.—"It is my pleasing duty to state that in my opinion the results of forest administration during the year are creditable both to Mr. Stanbrough and to the staff of forest subordinates employed under him."

South Canara.—"Mr. Peake states that he hopes a good deal has been done to lay a foundation and prepare for the progress contemplated in 1886-87. That much has been so done I am confident.

"It is well known that from a variety of causes the forest administration of South Canara was never in former days in a satisfactory condition, and the members of the subordinate establishment were further terribly demoralized by the period of almost total inaction between 1874 and the introduction of the new organization. Mr. Bradley did much to throw new life into matters, but he was only an officer in temporary charge with his own other duties to perform, and it therefore remained for Mr. Peake to deal with all detailed matters of accounts and internal organization. This was a heavy task for a young officer hampered by an idle and incompetent subordinate staff, but Mr. Peake has worked with great assiduity and harder I fear than has been good for him.

"The most important administrative step of the year has been the selection of about 75 square miles of forest for notification as reserved forests, and the setting aside of a large area of reserved land from which almost the whole of the reserved forests of the district will be carved out within the course of a few years, after which the rest of the temporarily reserved lands can fall back into the unreserved area. Arrangements have been made for the administration of the reserved areas by the forest staff proper, while the District Forest officer will manage the unreserved areas through the ordinary taluk and village establishments of the district. For this purpose clear and detailed rules have been drawn up and published for the guidance of all concerned."

91. There is an alarming tendency towards increase of office to the detriment of outdoor work which the Conservator has done his best to check but without avail. It is of course due in some measure to the working of the Act and rules, introduction of the new code and progress of forest settlement, but also to the multiple control and complex organization under which every Forest officer has two or more masters. As reserved forests are settled and constituted, it will probably be found expedient to hand them over to the sole charge of the departmental officers, the intervention of the Collector and Board of Revenue being dispensed with and the work of the professional Forest officers concentrated. This will, it is hoped, greatly reduce correspondence and simplify and improve the administration of the department.

During the year the Central office in Madras was removed to more commodious but more expensive quarters in the old Victoria Hotel. If Madras is to remain the head-quarters, it would be better and cheaper to build proper offices with provision for a Forest Museum and Library.

PRELIMINARY WORKING SCHEME (REVISED) FOR THE SHOLAKARAI BLOCK OF BOLAMPATTI RESERVED FOREST.

CHAPTER I.

Duration of Working Scheme and Extent of Working Circle.

1. The working circle comprises the whole of the Shôlakarai block (1,142 acres), of the Bôlampatti forest which was notified as a reserved forest by G.O., No. 1280, dated 19th November 1884, under section 16 of the Forest Act.

CHAPTER II.

General Description of Working Circle.

Situation.

2. It is situated in the Coimbatore taluk, to the south of the range of hills which form the southern limit of the Bôlampatti valley, and north of the railway from Madras to Beypore, about 1 mile east of Wálayár railway station. From its proximity to the railway, and as Coimbatore town is only 17 miles distant (by rail or road), it is most conveniently situated, and a ready market for the produce is always available.

Boundaries.

3. Its boundaries are :—

North.—The Shôlakarai hills forming part of the Bôlampatti reserved forest.
East.—Patta lands, which are both cultivated and waste.
South.—The railway from Madras to Beypore.
West.—Patta lands and a cart track leading to the hills.

Configuration of the ground.

4. The block is situated on ground with a gentle slope from north to south. On the whole it is fairly level with but few nullahs and ravines.

Climate.

5. The climate is equable and there are no great variations in temperature. There are no reliable data as to the average temperature and rainfall, but the block gets part of the south-west monsoon from May to September, though several inches less than the Wálayár reserve in the Pálghat range, Malabar district, not more than a mile distant to the west of the Wálayár river It also gets showers between October and January and sometimes in March or April with heavy dews at night both in the cold and hot months, *i.e.*, November to February and March to May, respectively. As far as is known, little or no damage is done by wind or storms.

Soil.

6. The soil is a good clayey loam in some parts, in others chalk predominates. On the whole it is deep and rich.

Stock.

7. A list of the principal trees is given in Appendix II.

Forest fires.

8. For the past four years, the block has been free from fire, with the exception of a small fire which occurred in 1884 and burnt the grass and under-growth over an area of 15 acres. Its proximity to the railway and private forests necessitates rigid precautions. During the fire season, which lasts from January to the end of May, five extra patrols in addition to the two permanent watchers are entertained. A fire line with an average breadth of 80 feet is burnt round the exterior limits, and the two inspection paths (each 13 feet broad) serve also as interior fire lines.

Effect of fires.

Fires which used to occur annually during former years account, no doubt, in part for the present stunted condition of the growing stock.

Grazing.

9. Cattle also have been rigidly excluded for the past four years, and as the block is worked as "Coppice with standards," it would never do to allow grazing, as parts will always consist of young coppice.

Rights, &c.

10. During the forest settlement no easements or proprietary rights were admitted inside this block.

Demands for produce.

11. The chief demand is from the town of Coimbatore, which is 17 miles to the east of the block.

12. The block is bounded by the railway and situated at a distance of about 1½ miles to the north of the road leading from Pálghat to Coimbatore. A cart track leads from the south-west corner of the block to the road.

Lines of export, roads, &c.

Inside the block the two inspection paths running north and south and east and west serve as roads.

13. The few streams which exist dry up during the hot weather, but there is generally some water in the Wálayár river, which runs close to the western boundary of the block.

Water-supply.

14. The fire patrols and watchers, who are junglemen, live inside the block in temporary huts. The forest is, however, very malarious: and the permanent camp, composed of a forester's house, two forest guards and a checking tannah, is situated about 2 miles distant on the Wálayár-Coimbatore road at Noukarai Pallam.

Rest houses, &c.

CHAPTER III.

Formation of Blocks and Compartments.

15. The block is divided into 8 Compartments:—

Compartment	A—165·60	acres
,,	B— 90·40	,,
,,	C— 89·10	,,
,,	D—103·40	,,
,,	E—154·09	,,
,,	F—169·81	,,
,,	G—194·10	,,
,,	H—175·60	,,

The accompanying map, which is on the scale of 600 feet to the inch (8·8 inches to the mile), from chain and compass survey by Mr. Porter, shows the situation and area of the Compartments and "*Coupes*" (annual cuttings). The Compartment lines are blue and the "*Coupe*" lines red. The Compartment lines (5 feet broad) are kept open on the ground: but the annual "*Coupes*" are surveyed out only during the year in which they are to be felled.

CHAPTER IV.

Description of the Block.

16. The block was taken up as a "Railway fuel reserve" in 1868. Of the entire area, 246 acres were purchased from pattadars by the Collector, the rest was Government waste. Although fenced, cattle and fires have only been rigidly excluded during the last four years. Contracts also, from time to time, were given for felling bamboos and other produce. A considerable amount of planting and sowing was also done at intervals, but apparently on no definite system. No statistics are available shewing the actual areas cultivated and felled over, or the amount and value of produce removed.

Past history.

17. Considering the quality of the soil and the favorable rainfall, the present condition of the growing stock is not satisfactory and the outturn probably not one-half of what it will be after 1896 when the second rotation begins. Compartments F and G are composed principally of bamboos.

Present condition.

18. The coppice throughout is of poor quality owing—

(*a*) To imperfect protection in former years from fire and cattle.

(*b*) To the way in which the trees were cut, in a good many cases the stock being composed of pollards and not coppice.

In no cases do the trees appear to have been cut level with the ground, the young shoots therefore were weak, few in number, and inherited, of course, the defects of the parent stump and so died or, at any rate, deteriorated at an early age.

The advantages of cutting trees level with the ground are that the shoots soon acquire a separate existence, and derive nourishment from the soil directly by their own roots instead of being dependent on the old stump, which often rots away and imparts its defects and failings to the young shoot. The latter then begins to rot from the base upwards.

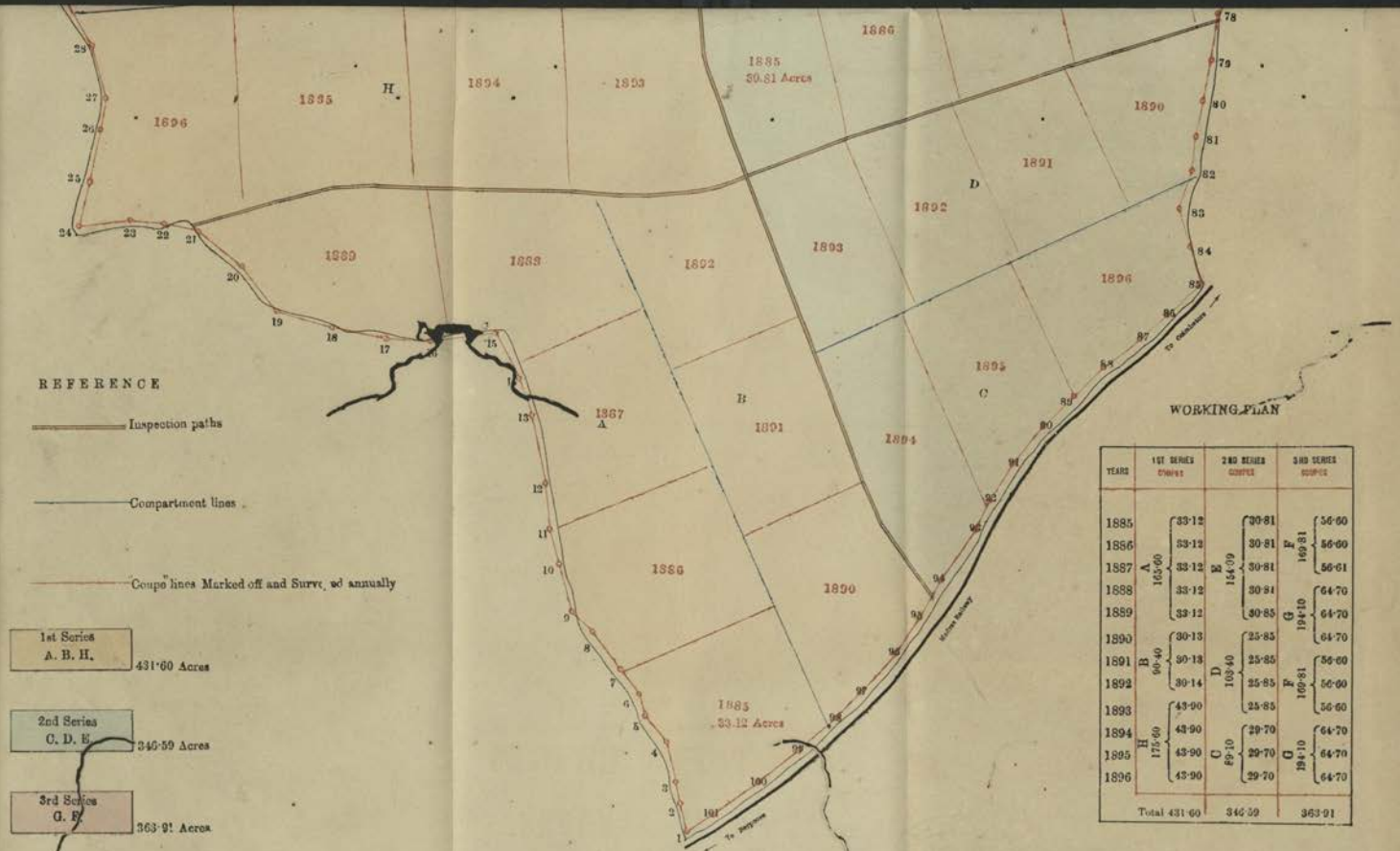
MAP
OF THE
SHOLAKARAI BLOCK
OF THE
BOLAMPATTI RESERVED FOREST
to accompany the preliminary working scheme.

M. N.

ISSUED ON THE GOVERNMENT PROPERTY PUBLIC SERVICE

600 Feet = 1 Inch $\frac{1}{7200}$

1000 500 0 1000 2000 3000 Feet



YEARS	1ST SERIES (Coupes)		2ND SERIES (Coupes)		3RD SERIES (Coupes)	
1885	A 165·60	33·12	E 154·09	30·81	F 169·81	56·60
1886		33·12		30·81		56·60
1887		33·12		30·81		56·61
1888		33·12		30·81	G 194·10	64·70
1889		33·12		30·85		64·70
1890	B 90·40	30·13	D 103·40	25·85		64·70
1891		30·13		25·85	F 169·81	56·60
1892		30·14		25·85		56·60
1893	H 175·60	43·90	C 89·10	25·85		56·60
1894		43·90		29·70	G 194·10	64·70
1895		43·90		29·70		64·70
1896		43·90		29·70		64·70
	Total 431·60		346·59		363·91	

(Signed.) H. J. PORTER,
Acting Deputy Conservator of Forests

Copied from Map received from Forest Office Southern Circle

Prepared under the direction of Colonel C. C. Rogerson, Superintendent, Madras Survey.
July 1911.

Lithographed in Central Survey Office, Madras, 1911.

19. In the open parts of the block and more especially along its southern and western boundaries, there is a luxuriant growth of grass. This increases the danger from fire. Probably after the first rotation, the grass will die away, as the new coppice will be thick enough to kill it.

Grass.

CHAPTER V.

General Proposals for Working.

Treatment.

20. The forest will be treated on the system of "Coppice with standards."

Series.

21. The block has been divided into three "*Series.*" The 1st and 2nd series are described as fuel series, as the principal product is firewood and poles. The 3rd series is described as a bamboo series, the principal product being bamboos.

Reasons for forming series.

22. Grouping the compartment into three series, and making each series furnish a number of "*Coupes,*" in such a way that one "*Coupe*" can be felled in each series annually, affords the following advantages:—

(*a*) Each of the three series contains stock of nearly equal quality and quantity; the outturn per acre per annum in a given series will therefore be almost constant during the whole rotation.

(*b*) By felling a "*Coupe*" in each series the average outturn per acre per annum during the whole rotation will be almost constant. If, instead of adopting this method, $\frac{1}{12}$ of the whole block were felled over annually in one place, the annual acre outturn would vary, as the stock is very different in the north and south compartments.

(*c*) Moreover, it is not convenient to have firewood "*Coupes*" of more than 30 acres in extent, as the bigger the "*Coupe*" the longer of course it takes to fell and remove the produce; and if the felling lasts many months the young shoots, which spring from the stools, get knocked off by the cart wheels. By having three small "*Coupes,*" instead of one large one, three different contractors or working parties may be employed.

Rotation.

23. The rotation is fixed at 12 years for series I and II. Each of these series contains 12 "*Coupes.*"

For series III, which is composed for the most part of bamboo, the rotation is fixed at 6 years, and the series itself divided into six "*Coupes.*" The bamboo series will therefore be felled over twice during the firewood rotation.

Capability and profits.

24. The capability of the block is fixed at so many acres a year. The probable yield per acre per annum in cubic feet, &c., as well as the net profit per acre per annum is given in Appendix III, calculated from the three "*Coupes*" felled during 1885. The yield as now calculated will improve after the first rotation, and the net profit per acre per annum will compare favorably even now with the assessment on dry lands in the vicinity, which is 12 annas an acre.

Net profit per acre per annum.

25. It will be seen that the net profit, not including the cost of establishment, is for "*Coupes*"—

In the 1st series Rupees 2- 1-9 per acre per annum.
„ 2nd series „ 1-15-3 „ „
„ 3rd series „ 2- 9-6 „ „

Annual yield per acre per annum in each series.

26. The annual yield per acre per annum is for "*Coupes*"—

In the 1st series 1·31 tons of fuel.
2·78 poles.
6 bamboos.

„ 2nd series ·61 tons of billet wood.
·65 tons of fagot wood and twigs.
Total 1·26 tons of fuel.

0·81 teak poles.
0·20 bloughs.
148 bamboos.

„ 3rd series ·46 tons of billet wood.
·57 fagot wood and twigs.
Total 1·03 tons of fuel.

0·11 teak poles.
0·16 ploughs.
419 bamboos.
·009 bamboo thorns.

27. In reviewing the financial results and annual yield, it must be remembered that, on an average, 15 trees per acre are reserved, and these are not now taken into consideration.
During the second rotation there is little doubt that the outturn will be doubled.

28. It will probably be necessary to thin out the new growth once or twice during the rotation. At present it is difficult to say at what age the first thinning will be necessary. But there will be little need to make heavy thinnings as the poles will all be of the same height, and clumps of 4 or 5 poles growing together will not injure each other.

Thinnings.

CHAPTER VI.

29. *General Prescriptions* :—

(*a*) The present working scheme must be adhered to and no alteration made in its provisions without the previous sanction of the Conservator.
(*b*) All trees and bamboos to be cut level with the ground.
(*c*) No grazing to be allowed, and fire to be rigidly excluded.
(*d*) Felling should begin in June and all produce be felled and removed within three months in "*Coupes*" in series I and II, and within four months in "*Coupes*" in series III.
(*e*) Not less than 15 poles to the acre should be reserved in each "*Coupe.*" The poles, which should be chosen from the more valuable species, to be, as far as possible, seedlings; where these are not available, straight, healthy coppice poles must be reserved. Poles should be marked for reservation before the felling takes place.
(*f*) In future all work in the way of felling should, if possible, be done by contractors. The contractor agreeing to fell at his own cost, to pile, and arrange the produce when felled, in different categories, and then to purchase it at so much per cubic foot or ton, &c.
(*g*) The Range Officer will maintain a book showing the quantity, description and value of produce removed from each "*Coupe,*" and also the names, numbers, and valuation of trees reserved. A copy of this statement for each "*Coupe*" must be submitted to the District Forest Officer as soon as the felling is over and the produce removed. For bamboos, poles, &c., the numbers must be given, and for other produce, such as fuel, the results must be given in tons or cubic feet.
(*h*) A protective belt 50 feet broad must be maintained round the exterior limit of the block, bamboos only to be felled on the protective belt.

H. J. PORTER,
Acting Deputy Conservator of Forests,
District Forest Officer, Coimbatore (South).

District Forest Office,
Coimbatore, 18th June 1886.

No. 676 (A).

1. Examined and approved as revised.

2. The scheme is of course provisional as we have not sufficient data as to rate of growth or annual increment to determine the capability or sustained annual yield, and experience may indicate the advisability of modifying the treatment especially with regard to the bamboo series.

3. The general prescriptions (paragraph 29) must, however, be rigidly adhered to, and the general principles of the scheme not be deviated from except under the sanction of competent authority. They will probably suffice for the first period or rotation (12 years) when the actual results can be compared with the estimated yield and a revised scheme adopted if necessary.

I. CAMPBELL WALKER, Lieut.-Col.,
Conservator of Forests in charge of
Southern Circle.

Office of the Conservator of Forests, S.C.,
Ootacamund, 21st June 1886.

APPENDIX I.

Working Plan of the Shôlakarai Block.

Year.	First Series.		Second Series.		Third Series.		Remarks.
	Compartment.	Area of Coupe.	Compartment.	Area of Coupe.	Compartment.	Area of Coupe.	
1885	A 165·60	33·12	E 154·09	30·81	F 169·81	56·60	Already felled.
1886		33·12		30·81		56·60	
1887		33·12		30·81		56·61	
1888		33·12		30·81	G 194·10	64·70	
1889		33·12		30·85		64·70	
1890	B 90·40	30·13	D 103·40	25·85		64·70	
1891		30·13		25·85	F 169·81	56·60	
1892		30·14		25·85		56·60	
1893	H 175·60	43·90		25·85		56·61	
1894		43·90	C 89·10	29·70	G 194·10	64·70	
1895		43·90		29·70		64·70	
1896		43·90		29·70		64·70	
Total ..	..	431·60	..	346·59	..	363·91	

APPENDIX II.

List of the Principal Trees found in the Shôlakarai Block.

English and Vernacular names.	Botanical names.
Teak (Tékku)	Tectona grandis.
Vellainága	Anogeissus latifolia.
Vepálai	Wrightia tinctoria.
Noná maram	Morinda citrifolia. exserta.
Tamarind (Puli)	Tamarindus indica.
Velvélam	Acacia leucophlœa.
Karuvélam	Acacia arabica.
Karangáli	Acacia Sundra.
Perumbai	Prosopis spicigera.
Malaivémbu	Melia Azedarach.
Etti maram	Dalbergia latifolia.
Véngai	Pterocarpu Marsupium.
Ácha	Hardwickia binata.
Yelandai	Zizyphus Jujuba.
Punga	Pongamia glabra.
Táni	Terminalia belerica.
Arasu	Ficus religiosa.
Patchálai	Dalbergia paniculata.
Tadasu	Grewia tiliæfolia.
Silawungai	Albizzia odoratissima.
Mailadi	Vitex altissima.
Anni karai	Odina Wodier
Bamboo (Múngal)	Bambusa arundinacea.

APPENDIX III.

Felled in 1885.

Statement showing Financial Results, Yield, and Names and Value of Trees reserved in Coupe A (1), 33·12 *acres*; 30 *acres only worked.*

Financial Results.

Receipts.	Amount.			Expenditure.	Amount.		
	RS.	A.	P.		RS.	A.	P.
Sale of 471 tons of fuel at Rs. 1-8-7 per ton	725	0	0	Cost of cutting and stacking 471 tons of fuel	314	0	0
Sale of 1,002 poles	400	0	0	Cost of cutting and stacking bamboos	15	8	0
Do. of 2,005 bamboos ...	40	0	0	Cost of cutting and stacking poles	62	8	0
Do. of bamboo thorns, &c. ...	22	7	0	Cost of heaping up branches and clearing the *coupe*	34	14	0
	1,187	7	0		426	14	0

Net profit in A(1), which was worked departmentally, is therefore Rs. 760-9-0. The area felled over was only 30 acres as a protective belt comprising 3·12 acres was left along the south and west; the net profit per acre per annum is therefore $= \frac{760}{30 \times 12} =$ 2-1-9.

Yield per acre per annum.

$\frac{471}{30 \times 12} = 1{\cdot}31$ tons of fuel. $\frac{1002}{30 \times 12} = 2{\cdot}78$ of poles.

$\frac{2005}{30 \times 12} = 6$ bamboos.

Names and Value of Trees reserved.

Number of trees.	Names of trees.	Rate per tree.			Amount.			Number of trees.	Names of trees.	Rate per tree.			Amount.		
		RS.	A.	P.	RS.	A.	P.			RS.	A.	P.	RS.	A.	P.
70	Tectona grandis ...	0	8	0	35	0	0	49	Anogeissus latifolia small	0	2	0	6	2	0
26	Do. small.	0	3	0	4	14	0								
7	Pterocarpus Marsupium	0	8	0	3	8	0	40	Grewia tiliæfolia ...	0	4	0	10	0	0
								20	Vitex altissima ..	0	2	0	2	8	0
40	Prosopis spicigera...	0	8	0	20	0	0	20	Morinda citrifolia...	0	2	0	2	8	0
13	Do. small.	0	3	0	2	7	0	20	Acacia leucophlœa.	0	3	0	3	12	0
40	Acacia Sandra ...	0	8	0	20	0	0	20	Tamarindus indica .	0	8	0	10	0	0
23	Do. small.	0	3	0	4	5	0								
100	Anogeissus latifolia.	0	9	0	37	8	0	488					162	8	0

Felled in 1885.

Statement showing Financial Results, Yield, and Names and Value of Trees reserved in Coupe E(1) 30·81 *acres.*

Financial Results.

Receipts.	Amount.			General Remarks.
	RS.	A.	P.	
53,300 bamboos @ 9 annas per 100 ...	303	0	0	This *coupe* was purchased by a contractor who felled and stacked the produce at his own expense and purchased it at the rate as shown. The net profit per acre per annum is therefore $\frac{703}{30 \times 12} =$ Rs. 1-15-3.
292 teak poles @ as. 8 per pole ...	146	0	0	
75 ploughs @ as. 3 per plough ...	14	1	0	
220½ tons of fuel @ 0-10-8 per ton ..	147	0	0	
148½ tons of branch fuel @ 8 as. per ton.	74	4	0	
85½ tons of small branches @ 0-3-6 per ton	18	12	6	
	703	1	6	

Yield per acre per annum.

$\frac{53,300}{30 \times 12}$ = 148 bamboos.

$\frac{292}{30 \times 12}$ = 0·81 teak poles.

$\frac{75}{30 \times 12}$ = 0·20 ploughs.

$\frac{220}{30 \times 12}$ = 0·61 tons of billet wood.

$\frac{234}{30 \times 12}$ = 0·65 tons of fagot wood.

Total ... 1·26 tons of fuel.

Names and Value of Trees reserved.

Number of trees.	Names of trees.	Rate per tree. RS. A. P.	Amount. RS. A. P.
25	Tectona grandis	0 8 0	12 8 0
35	Prosopis spicigera	0 8 0	17 8 0
40	Acacia Sundra	0 8 0	20 0 0
35	Do. small	0 3 0	6 9 0
30	Acacia leucophlœa	0 6 0	11 4 0
40	Grewia tiliæfolia	0 2 0	5 0 0
100	Anogeissus latifolia	0 6 0	37 8 0
121	Do. small	0 2 0	15 2 0
14	Morinda citrifolia	0 2 0	1 12 0
10	Vitex altissima	0 2 0	1 4 0
8	Tamarindus indica	0 4 0	2 0 0
458			130 7 0

Felled in 1885.

Statement showing Financial Results, Yield, and Names and Value of Trees reserved in Coupe F (1), 56·60 *acres*.

Financial Results.

Receipts.	Amount. RS. A. P.	General Remarks.
140,650 bamboos at Rs. 0-7-3 per 100 ...	641 4 0	Felled and purchased by a contractor in the same way as E (1).
3½ tons of bamboo thorn at Rs. 1-0-0 per ton	3 8 0	Net profit per acre per annum, assuming that the bamboo *coupe* can be felled every 6 years, will be—
79 teak poles at Rs. 0-8-0 per pole ...	34 8 0	
114 ploughs at Rs. 0-3-0 per plough ...	21 6 0	
311¼ tons of fuel at Rs. 0-10-8 per ton.	207 8 0	RS. A. P.
29½ tons of branch fuel at Rs. 0-12-0 per ton	22 2 0	$\frac{645}{56 \times 6}$ = 1 14 8
334½ tons of small branch fuel at Rs. 0-8-0 per ton	167 4 0	$\frac{456}{56 \times 12}$ = 0 10 10
20 tons of inferior branch fuel (twigs) at Rs. 0-3-0 per ton	3 12 0	Total ... 2 9 6
	1,101 4 0	Bamboo out-turn comes every 6 years, but coppice every 12 years.

Yield per acre per annum.

$\frac{140,650}{56 \times 6}$ = 419 bamboos.

$\frac{3}{56 \times 6}$ = ·009 tons of bamboo thorns.

$\frac{79}{56 \times 12}$ = 0·11 teak poles.

$\frac{114}{56 \times 12}$ = 0·16 ploughs.

$\frac{311}{56 \times 12}$ = 0·46 tons of billet wood.

$\frac{382}{56 \times 12}$ = 0·57 tons of fagot wood.

Total ... 1·03 tons of fuel.

Names and Value of Trees reserved.

Number of trees.	Names of trees.	Rate per tree. RS.	A.	P.	Amount. RS.	A.	P.	Number of trees.	Names of trees.	Rate per tree. RS.	A.	P.	Amount. RS.	A.	P.
5	Tectona grandis ...	0	8	0	2	8	0	1	Ficus indica ...	3	0	0	3	0	0
106	Dalbergia latifolia.	0	8	0	53	0	0	4	Terminalia belerica.	2	0	0	8	0	0
42	Pterocarpus Marsupium	0	8	0	21	0	0	1	Ficus religiosa ...	3	0	0	3	0	0
40	Pterocarpus small...	0	2	0	5	0	0	62	Stereospermum chelonoides ...	0	2	0	7	12	0
80	Prosopis spicigera...	0	6	0	30	0	0	39	Grewia tiliæfolia ...	0	2	0	4	14	0
60	Acacia Sundra ...	0	8	0	30	0	0	65	Albizzia odoratissima	0	4	0	16	4	0
26	Do. small	0	3	0	4	14	0								
100	Anogeissus latifolia.	0	6	0	37	8	0	25	Morinda citrifolia...	0	2	0	3	2	0
61	Do. small...	0	2	0	7	10	0	11	Vitex altissima ...	0	2	0	1	6	0
37	Acacia leucophlœa.	0	4	0	9	4	0	30	Odina Wodier ...	0	1	0	1	14	0
30	Do. small...	0	2	0	3	12	0	10	Tamarindus indica.	1	0	0	10	0	0
								835					263	12	0

DISTRICT AND RESERVE AREAS IN SQ. MILES

REFERENCE.—Mr. Cherry's Special Report-less 200 Sq. Miles of Javadies transferred to Arcot.

Range & Taluk.	Total Area	Total Forest & Scrub	Total Cultivation in 1884-85	Total waste & Inam 1884-85	Private Forests	Reserves required for Population and Railway	Reserves sanctioned.				Total		Portions specially protected	
							Lands	Outline in Miles	Forests under Setm	Outline in Miles	Sanctioned	Outline in Miles		Outline in Miles
Salem	1063	246	310	411	16	280	7	14	115	240	122	263	16	58
Atur	893	574	164	554	62	124	..	..	48	109	48	109	..	..
Namakal	803	139	156	508	34	193	..	..	34	31	34	31	..	..
Tiruchengode	634	35	257	342	19	150	..	..	..	..	..	..	..	..
Uttankarai	917	386	186	345	42	106	113	210	81	147	194	357	7	19
Tirupatur	549	257	111	181	39	100	26	50	86	164	112	214	2	11
Krishnagiri	680	110	164	406	70	102	..	..	33	50	33	50	2	11
Dharmapuri	914	455	192	267	80	104	..	..	82	73	82	73	..	..
Hosur	1217	430	128	662	176	104	31	64	214	285	245	349	21	43
District Total	7675	2534	1665	3476	508	1328	177	338	483	1106	860	1446	48	142

FOREST REFERENCES.

- Private Estates
- Proposed Reserved Forests (under notification & settlement)
- Reserved Lands
- Specially protected
- Under Settlement
- Reserved Forest
- 15 No. of Reserved land
- XV do. Specially protected block
- 15 do. Reserved Forest
- B Bangalore

ESTABLISHMENT SANCTIO[illegible] & DISTRIBU[illegible]

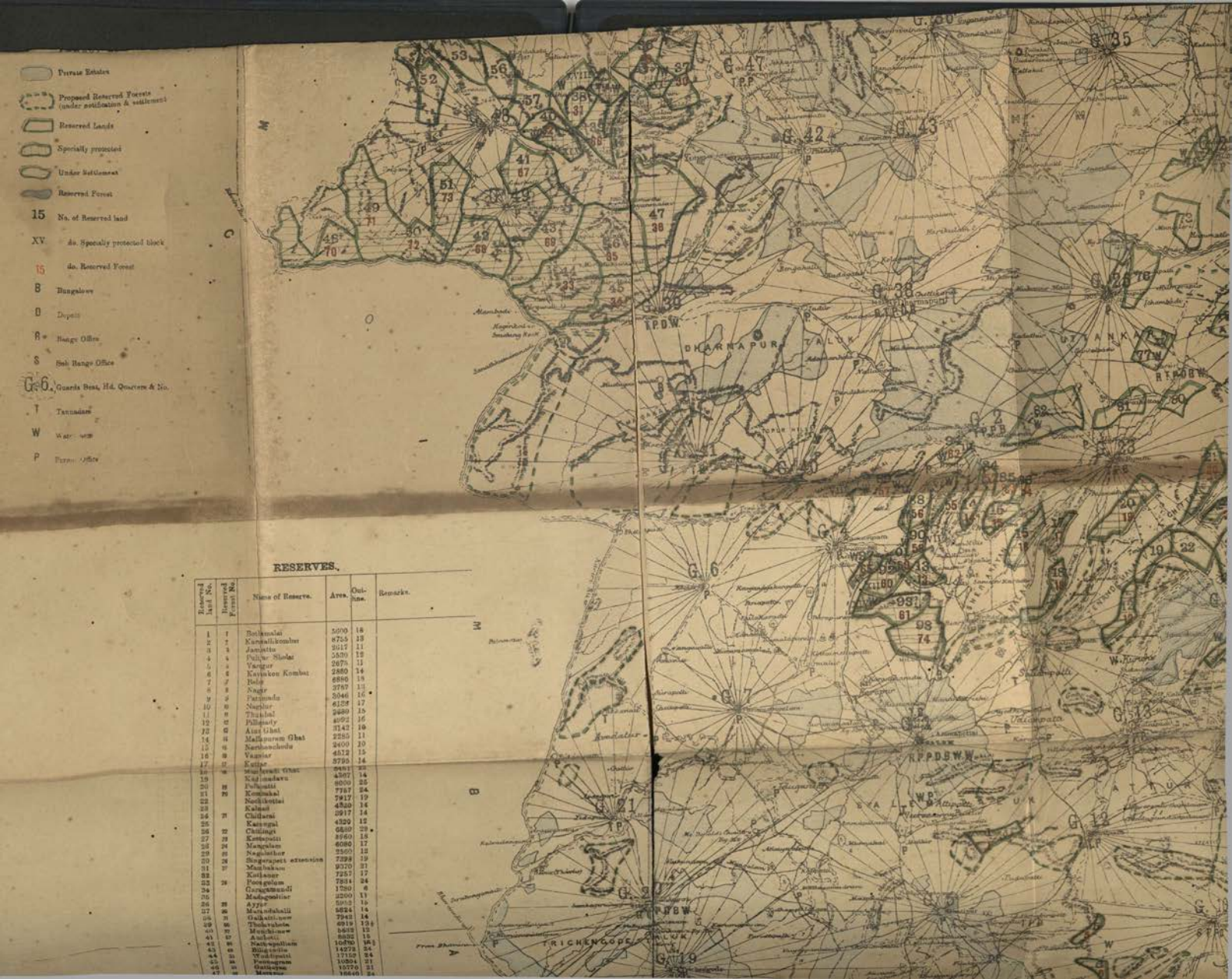
Sanctioned.	6	6	1	4	8	10	10
Ranges.	Office Clerks	Office Peons	Sub-Assistant Chair	Rangers	Foresters	Guards	Depôt Watchmen
Dist. Forest Office	6	6	1	...	1	...	1
Salem	...	...	...	1	1	7	1
Atur	...	...	...	...	2	6	1
Namakal	...	...	...	...	1	3	1
Tiruchengod	...	...	...	...	1	3	1
Uttankarai	...	...	...	...	1	5	1
Tirupatur	...	...	...	1	1	6	1
Krishnagiri	...	...	...	...	1	5	1
Dharmapuri	...	...	...	...	1	6	1
Hosur	...	...	...	1	...	7	1
District Totals...	6	6	1	3	10	50	10

ESTABLISHMENT SANCTIONED, ENTERTAINED & DISTRIBUTED.

Sanctioned.	6	6	1	4	8	50	10	10	9	50	100	40			
Ranges.	Office Clerks	Office Peons	Sub-Assistant Chair.	Rangers	Foresters	Guards	Depot Watchmen	Range Clerks	Range Peons	Paid Tenanders	Tape Watchmen	Reserve Watchmen	Permit Officers	Commission Tenanders	Total Subordinates
Dist. Forest Office	6	6	1	...	1	...	1	1	...	...	...	...	...	...	16
Salem	...	...	...	1	1	7	1	1	1	8	14	11	21	38	104
Atur			...		2	6	1	1	1	6	8	6	11	64	106
Namakal	...	...	...	...	1	5	1	1	1	5	6	9	10	28	63
Tiruchengod			...		1	8	1	1	1	2	4	...	12	14	40
Uttankarai			...		1	6	1	1	1	4	4	4	12	28	64
Tirupatur	...	...	...	1	1	6	1	1	1	5	8	5	10	43	82
Krishnagiri	...	...	...	...	1	6	1	1	1	3	21	4	6	20	63
Dharmapuri	...	...	...	...	1	6	1	1	1	6	17	...	11	11	55
Hosur	...	...	...	1	...	7	1	1	1	4	14	4	13	17	63
District Totals...	6	6	1	2	10	50	10	10	9	46	99	37	106	263	656

SPECIALLY PROTECTED BLOCKS.

No.	Name of Block.	Area.		Remark
I	Vadugampatti	1070	8	—
II	Morur	788	24	
III	Mallapuram	587	8	
IV	Bettur	228	24	


Private Estates
Proposed Reserved Forests (under notification & settlement)
Reserved Lands
Specially protected
Under Settlement
Reserved Forest
15 No. of Reserved land
XV do. Specially protected block
15 do. Reserved Forest
B Bungalows
D Depôts
R Range Office
S Sub Range Office
G.6. Guards Beat, Hd. Quarters & No.
T Tanneries
W Water work
P Forest Office
DHARMAPURI TALUK
TRICHENGODE TALUK
RESERVES.
Reserved land No.
Reserved Forest No.
Name of Reserve.
Area.
Outline.
Remarks.
1 1 Bothamalai 5090 18
2 2 Kavvalikombai 8755 13
3 3 Jamattu 2017 11
4 4 Pulipur Sholai 2630 12
5 5 Yeragur 2678 11
6 6 Kavvakon Kombai 2880 14
7 7 Bolu 6880 18
8 8 Nagur 2767 13
9 9 Pattimadu 3046 16
10 10 Nagalur 6128 17
11 11 Thakkal 2680 15
12 12 Pillamaly 4092 16
13 13 Aani Ghat 3142 10
14 14 Mallapuram Ghat 2285 11
15 15 Narthamchedu 2400 10
16 16 Vagaiur 4812 15
17 17 Sellur 5795 14
18 18 Muthirati Ghat 6481 22
19 19 Kalimadavu 4307 14
20 20 Pulipatti 6009 25
21 21 Kombakal 7767 24
22 22 Nachikottai 7917 19
23 23 Kalasal 4820 16
24 24 Chillarai 2917 14
25 25 Kaiyagal 4329 12
26 26 Chilingi 6849 23
27 27 Kottapatti 3960 15
28 28 Mangalam 6080 17
29 29 Nagalathur 2560 12
30 30 Singarapatti extension 7293 19
31 31 Muthakaun 9370 31
32 32 Kottanur 7257 17
33 33 Poragalam 7804 24
34 34 Garagamandi 1780 6
35 35 Madagoditur 3200 11
36 36 Ayyur 5903 15
37 37 Marandahalli 5824 14
38 38 Gallatti-new 7943 18
39 39 Thakshola 6919 194
40 40 Muchi-new 5632 13
41 41 Anchetti 8932 15
42 42 Nathapollam 10570 143
43 43 Bilgiritte 14273 24
44 44 Wadalpatti 17150 24
45 45 Poragram 10304 21
46 46 Gattaiyur 10770 21
47 47 Mettur 18640 24

SPECIALLY PROTECTED BLOCK

No.	Name of Block.	Area.		Rem
I	Vadugampatti	1976	8	
II	Morur	799	3½	
III	Mallapuram	587	5	
IV	Barjur	729	2½	
V	Puthur	1069	5	
VI	Karriappakombai	531	4	
VII	Pillapallikombai	951	6	
VIII	Ammanari	252	3½	
IX	Uttankarai	409	4½	
X	Singarapatti	2624	9½	
XI	Karur	1176	5½	
XII	Kanjari	1929	9½	
XIII	Tegarapalli	499	4½	
XIV	Pannikkadu	2645	10½	
XV	Karavaraiparai	837	6½	
XVI	Maligiri	5461	13½	
XVII	Kanavai Kottapatti	742	4	
XVIII	Gudhatti	3248	11	
XIX	Munchi	2305	10	
XX	Kanavaraijasumadram	416	4	
XXI	Kurur	1213	9	
	Total	30979	142	

19	18	Sendrandi (Out	3481	23
19		Kadiambavu	4507	14
20	18	Pallupatti	9800	26
21	20	Kombakal	7767	24
22		Nochikottai	7917	19
23		Kaleed	4320	14
24	21	Chilkarai	3917	14
25		Karungal	4320	12
26	22	Chidingi	6480	29
27	23	Keelpatti	8960	18
28	24	Mangalam	6080	17
29	25	Nagalakkar	3569	22
30	26	Singarapet extension	7398	19
31	27	Manbakam	9370	21
32		Kottanar	7257	17
33	28	Poongoiam	7304	24
34		Carugamudi	1720	6
35		Madagoottiar	3200	11
36	29	Ayyar	5952	16
37	30	Marundahalli	6824	14
38	31	Galkatti-new	7942	14
39	56	Thokrabeta	6919	13½
40	57	Munchi-new	8632	15
41	67	Anikatti	8832	16
42	68	Nattrapolliam	10850	16½
43	69	Biligonnlu	14272	24
44	32	Woddipatti	17152	24
45	34	Peenagram	10304	21
46	35	Gattipora	15776	21
47	36	Morapur	16640	24
48	70	Kestur	11616	24½
49	71	Billikal	11186	23½
50	72	Mallahalli	8928	15
51	73	Thaiyatti	10432	18½
52		Hulkundah	7360	20
53		Pasi	5856	17
54	37	Jowlagiri	6016	18½
55	38	Thalli	6368	21
56		Kunibakota	4768	13
57		Sivanhalli	4992	13½
58	39	Nagamur	5200	18½
59	40	Denkinkota	2816	10
60	41	Maharajagnai	10304	16
61	42	Nerukottai	7040	17
62	43	Bargur-new	1920	7½
63	44	Kotur	3840	15
64	45	Medarudeppa	2048	10½
65	46	Jollapet	1216	10
66	47	Nacanagaram	2048	8½
67	48	Kaleripatti	2016	7½
68	49	Alangayam	11520	28
69		Andiyapanur	4704	12½
70		Goviandpuram	3104	11
71		Uttamkarai-new	3200	16
72		Wounagidi	2944	10
73		Kallatti	4160	13½
74	50	Poonampatti	4672	10½
75		Poyapatti	3488	11
76		Morapur	4000	20
77		Marot-New	1901	7
78		Thirthamalai	11046	19
79		Vepampatti	3640	17½
80		Kaladipatti	2912	12
81		Thenkarukottai	2968	11
82		Kaurumalai	6812	30
83	51	Ammapolliam	9216	17
84	17	Mallapuram (Out extension	640	5½
85	52	Ajampatti	1920	10
86	54	Narthamedu extension	1088	7
87	55	Verumalai	3520	10½
8	58	Kannayanallur	6250	11
89	59	Lokur	3317	14
90	60	Pilamalli Kombai-New	2080	8
91	53	Atur Gate extension	544	5
92	61	Kanjeri-New	4032	14
93	62	Pennikanedu-New	4832	13
94	63	Mallapuram	589	5
95	65	Singarapett	2624	9½
96	66	Tagarapalli	469	4½
97	68	Karuvanipatti	800	9½
98	74	Kurumbapatti	10000	24½
		Total	530814	1445½

Sqr. Miles 860 · 32

INDIA OFFICE LIBRARY
ASIATIC SECTION

Form No. 59-A.

Forest Department, Madras, Southern Circle.

Area of reserved forests, 1885-86.

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput..		Tandrai	..	..	664	..	664	..	No. 49, F.S.G.G., dated 24th February 1886.	Transferred from 59 B.
	Saidápet	Tirukalikundram.. ..	..	..	697	..	697	..	No. 267, F.S.G.G., dated 25th September 1885.	
		Uragadam..	..	..	540	..	540	..		
		Madayattúr	..	..	697	..	697	..		
	Tiruvallúr	Kámbákam	..	..	13,705	..	13,705	..	No. 49, F.S.G.G., dated 24th February 1886.	
		Pándúr	..	..	1,262	..	1,262	..		
		Total ..	..	..	17,565	..	17,565	27·45		
North Arcot.	Vellore .. Pólúr taluk ..	Carnaticghur reserve ..	12,800	20	..	* 5,730·83	7,069·17	11·04	No. 241, F.S G.G., dated 18th December 1884.	Demarcated and surveyed.
	Vellore taluk..	Ambúr fuel reserve ..	3,840	6	..	..	3,840	6·00		
		Palamadi fuel reserve ...	6,400	10	..	..	6,400	10·	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated.
	Chandragiri. Chandragiri taluk.	Napier reserve	..	..	8,772	..	8,772	13·70	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated, surveyed and fenced.
		Mámandúr	..	..	1,776	..	1,776	2·77		Transferred from 59B.
		Chamala	..	..	9,600	..	9,600	15		
		Panapák	..	..	6,400	..	6,400	10		Demarcated.
		Podiyatlabail	..	..	2,560	..	2,560	4		
	Chittoor taluk.	Paradarami	..	..	15,241·83	..	15,241·83	23·83		Demarcated and surveyed.
	Gudiyátam taluk.	Ambúr drug reserve ..	5,760	9	..	..	5,760	9	No. 241, F.S.G.G., dated 18th Dec. 1884.	
	Palmanér. Palmanér taluk	Musalimadugu	..	..	9,600	..	9,600	15	No. 158, F.S.G.G., dated 16th June 1885.	
		Basvireddipalle	..	..	10,240	..	10,240	16	No. 275, F.S.G.G., dated 2nd Oct. 1885, part I.	Demarcated.
	Palmanér and Gudiyátam taluks.	Mortana reserve	..	..	16,000	..	16,000	25	No. 158, F.S.G.G., dated 16th June 1885.	Transferred from 59 B.
		Naikaneri reserve ..	..	..	6,400	..	6,400	10		
		Peddúr	..	..	9,600	..	9,600	15		
	Head-quarters. Arcot taluk ..	Punganúr plantations ..	6,400	10	..	* 2,656·63	3,743·37	5·84	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
	Vellore .. Pólúr taluk ..	Ammerdi plantation ..	25	..	..	..	25	..	No. 241, F.S.G.G., dated 18th Dec. 1884, part I.	Demarcated and surveyed.
	Vellore taluk..	Ambúr plantation ..	5	..	..	..	5	..		
	Chandragiri. Chandragiri taluk.	Gazerlamandiyam ..	..	..	250	..	250	..	No. 158, F.S.G.G., dated 16th June 1885, part I.	Partly surveyed and fenced, not planted.

Area of reserved forests, 1885-86—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot —*cont.*	Palmanér, Gudiyátam taluk.	Tiruvallam plantation ..	435	..	..	..	435	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
		Virinjipuram do. ..	260	..	..	..	260	..		
		Chainur do. ..	129	..	..	..	129	..		
		Ammundi do. ..	160	..	..	..	160	..		Demarcated and fenced.
		Tándráyaguntа do. ..	2	..	..	..	2	..		
	Palmanér, Palmanér taluk.	Palmanér	..	..	2	..	2	..	No. 158, F.S.G.G., dated 16th June 1885, part I.	Fenced.
		Nagamangalam	..	..	31	..	31	..		
		Piduguvaripalle	..	..	20	..	20	..		
		Venkatagirikota	..	..	4	..	4	..		
		Baireddipalle	..	..	4	..	4	..		
	Headquarters, Arcot taluk ..	Kílminnel	150	..	..	* 38·46	111·54	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
	Headquarters, Wálajápet taluk.	Vannivédu	..	..	30	..	30	..	No. 158, F.S.G.G., dated 16th June 1885, part 1.	Demarcated and fenced.
		Arkónam Sub-Magistrate's compound.	..	..	5	..	5	..		
		Arkónam plantation ..	..	..	37	..	37	..		
		Total ..	36,366	56·82	96,572·83	* 8,425·92	124,512·91	194·55		
South Arcot ..	Tiruvannámalai taluk, No. I range.	Annámalai	..	..	1,760	..	1,760	2·75	No. 151, F.S.G.G., dated 2nd June 1885.	Notified under sec. 25. Transferred from 59 B.
Salem ..	....	....	..	..	..	..	..	..		
Trichinopoly ..	Kulitalai	Elamanúr	117·10	0·18	..	..	117·10	0·18		
		Kulitalai	77·18	0·12	..	..	77·18	0·12		
		Manatattai	44·86	0·07	..	..	44·86	0·07	No. 171, F.S.G.G., dated 23rd September 1884.	Notified under sec. 25.
		Láiápet	213·	0·33	..	..	213·	0·33		
		Sittalavoi	160·32	0·25	..	..	160·32	0·25		
		Kattalai	74·35	0·11	..	..	74·35	0·11		
		Téanmalai	640·	1·	..	..	640·	1·	No. 204, F.S.G.G., dated 11th December 1883.	
		Minnakaradu	1,000·	1·56	..	..	1,000·	1·56		
		Punjantángi	1,000·	1·56	..	..	1,000·	1·56		
		Total ..	3,326·81	5·19	..	..	3,326·81	5·19		
Tanjore ..	....	....	..	..	..	..	..	..		

* Excluded as found correct when surveyed.

Area of reserved forests, 1885-86—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Coimbatore (North).	Kollegál	Jadatalayhulla	361·01	3·69	..	..	361·01	3·69	No. 217, F.S.G.G., dated 21st December 1883.	Sandalwood reserves demarcated, surveyed and mapped. Notified under Sec. 25.
		Udayárpálaiyam	296·63		..	..	296·63			
		Bilúr	1,186·39		..	..	1,186·39			
	Satyamangalam	Germalam	519·78		..	..	519·78			
		Vellamundi	..	..	*12,800	..	12,800	20	No. 174, F.S.G.G., dated 7th July 1885.	Notified under sec. 16.
		Total ..	2,363·81	3·69	12,800	..	15,163·81	23·69		
Coimbatore (South).	Tunácadavu	Anaimalais No. I ..	52,480	82	..	..	52,480	82		
	Punáchi	Do. ,, II ..	3,140	4·9	..	..	3,140	4·9		
	Udamalpet	Do. ,, III ..	47,360	74	..	..	47,360	74		
	Pollachi and Udamalpet ..	Do.	133,120	208	..	..	133,120	208		
	Bêlampatti	Bolampatti block I Do. ,, II Do. ,, III	47,680	74·5	..	..	47,680	74·5		
		Tadágam forest block No. IV	30,720	48·	..	..	30,720	48		
	Coimbatore taluk (Mettupálaiyam).	Gôpanári forest block No. V	..	..	38,200	..	38,200	59·69	No. 44, F.S.G.G., dated 4th November 1885.	Transferred from 59 C.
		Kempampalaiyam forest block No. VI.								
		Nellitorai do ,, VII.								
		Odantorai do. ,, VIII.	..	..	5,880	..	5,880	9·19		
		Môdur do. ,, IX.	..	..	3,600	..	3,600	5·62		
		Total ..	314,500	491·41	47,680	..	362,180	565·91		
Madura ..	No. I, Periyakulam	Vannátipárai	27,481·6	42·94	..	..	27,481·6	42·94		
		Suranganur	3,616	5·65	..	..	3,616	5·65		
		Méla Gúdalúr	..	..	1,280	..	1,280	2	No. 94, F.S.G.G., dated 24th March 1886.	Notified under sec. 16
		Machakal	..	..	2,560	..	2,560	4		
		Sengalvarayár	5,209·6	8·14	..	..	5,209·6	8·14		
		Pámbár	4,755·2	7·43	..	..	4,755·2	7·43		
		Vikramangalam	10,240	16	..	..	10,240	16		
		Virapándi	2	..	..	..	2	..	....	Reserved forest and tope.
		Támaraikulam	1	..	..	..	1	..	....	

* Approximate.

Area of reserved forests, 1885-86.—*continued.*

District.	Range	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. I, Periyakulam—*cont.*	Mélamangalam	1·5	..	..	..	1·5	..	..	Reserved forest and tope.
		Vadipatti	1	..	..	..	1	..	..	
		Gangavárpatti	4	..	..	..	4	..	..	
		Allinagaram	2	..	..	..	2	..	..	
		Mottanutu	2	..	..	..	2	..	..	
		Tambiránkánal	..	..	250	..	250	..	No. 268, F.S.G.G., dated 25th September 1885.	
		Púmbárai and Vilpatti valley.	13,587·2	21·23	..	..	13,587·2	21·23		
		Kudiraiyár	10,060·8	15·72	..	..	10,060·8	15·72		
		Kúkal	9,644·8	15·07	..	..	9,644·8	15·07		
		Marudanadiyár ..	6,528	10·20	..	..	6,528	10·20		
		Pámbukalar	800	1·25	..	..	800	1·25		
		Siruvattukádu	2,279·2	3·56	..	..	2,279·2	3·56		
		Kaniyankádu	3,001·6	4·69	..	..	3,001·6	4·69		
		Vennilai	4,800	7·50	..	..	4,800	7·50		
		Ariyanatukánal ..	..	..	64	..	64	0·10	No. 93, F.S.G.G., dated 24th March 1886.	Notified under sec. 16.
		Kumangovaimalaikádu ..	..	..	80	..	80	0·12		
		Petarenkánal	..	..	80	..	80	0·12		
		Velámkombai	..	..	1,600	..	1,600	2 50	No. 239, F.S.G.G., dated 4th September 1885.	
		Parappár	..	..	42	..	42	0·06		
	No. II, Kodaikánal ..	Shólas on the Lower Palnis—								
		(*a*) Perumálmalai shóla	..	..	..	..	..	..		
		(*b*) Togavarai shóla ..	..	..	..	..	..	..		
		(*c*) Serutankanal shóla	..	..	..	..	..	..		
		(*d*) Arankanal shóla ..	..	..	..	..	..	..		
		(*e*) Kadavu shóla ..	..							
		Shólas on the Upper Palnis—								
		(*a*) Tiger shóla ..								
		(*b*) Parappar shóla ..								
		(*c*) Kodaikánal ..								
		(*d*) Pannitutamkanal								
		(*e*) Gundan and Manavan shólas ..	2,316	3·62	..	..	2,316	3.62		
		(*f*) Gundar shóla ..								
		(*g*) Sandanam shóla ..								
		(*h*) Fort Hamilton ..								
		(*i*) Marian shola ..								

Area of reserved forests, 1885-86—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*		*Plantations.*								
		Eucalyptus	16·12	0·02	* 0·50	..	16·62	0·03	....	* Purchased from the Rev. J. Nozes.
		Acacia	14	0·02	..	..	14	0·02	....	
		Velámkombai	54·14	0·08	..	..	54·14	0·08	....	
	No. II, Kodaikánal—*cont.*...	*Jungle Conservancy.*								Reserved forest and plantation.
		Kodaikánal settlement ..	3	..	..	..	3	..	....	
		Púmbárai	6	..	..	..	6	..	....	
		Virupátchi	7·15	..	..	..	7·15	..	....	Reserved forest and tope.
		Sivagiripatti	1·15	..	..	..	1·15	..	....	
		Sirumalai	25,529·6	39·89	..	..	25,529·6	39·89	....	
		Mudimalai	6,086·4	9·51	..	..	6,086·4	9·51	....	
		Akkammakaradu	..	..	1,600	..	1,600	2·50	No. 101, F.S.G.G., dated 24th March 1886.	Transferred from 59 B.
		Kappuravallikuttu ..	..	..	2,560	..	2,560	4		
		Tenkal	..	..	3,200	..	3,200	5		
		Sundamalai	..	..	2,240	..	2,240	3·50		
		Tannirkaradu	..	..	1,920	..	1,920	3		
		Kadavakurchi	5,120	8	..	..	5,120	8	....	
	No. III, Dindigul	Sengattampatti	4,480	7	..	..	4,480	7	....	
		Dindigul, at the junction of Trichinopoly and Karúr roads.	1	..	..	..	1	..	....	
		Dindigul Munsif's Court..	0·59	..	..	..	0·59	..	....	Reserved forest and tope.
		Dindigul race-course ..	4	..	..	..	4	..	....	
		Kôvilúr	1·19	..	..	..	1·19	..	....	
		Do.	0·15	..	..	..	0·15	..	....	
		Gúdalúr	1·18	..	..	..	1·18	..	....	
		Guvakapatti	130·52	0·20	..	..	130·52	0·20	....	
		Jungle Conservancy.								
		Mudugamalai								
		Vellamalai								
	No. IV, Mélúr	Perumálmalai	2,700	4·22	..	..	2,700	4·22	....	
		Pillaiyárnattam hills ..								
		Navinipatti	12	0·01	..	..	12	0·01	....	Reserved forest and tope.
		Jungle Conservancy.								
		Alagarmalai reserve ..	13,036	20·37	..	..	13,036	20·37	....	
		Tenapudupettai	126·78	0·20	..	..	126·78	0·20	....	
	No. V, Madura	Sakimangalam	467·94	0·73	..	..	467·94	0·73	....	
		Nágamalai	2,356	3·68	..	..	2,356	3·68	....	

Area of reserved forests, 1885-86—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. V, Madura—*cont.* ..	Ténúr	11·78	0·01	..	..	11·78	0·01		
		Tovarimán	21	0·03	..	..	21	0·03		
		Total ..	164,521·19	257·07	17,476·50	..	181,997·69	284·37		
Tinnevelly ..	Nángunéri	Reserve No. I	31,532·80	49·27	..	..	31,532·80	49·27		
	Ambásamudram	Do. ,, II	91,008	142·20	..	..	91,008	142·20		
	Tenkási	Do. ,, III	18,009·60	28·14	..	..	18,009·60	28·14		
	Sankaranainárkoil	Do. ,, IV	19,737·60	30·84	..	..	19,737·60	30·84		
	Srívilliputúr	Do. ,, V	23,270·40	36·36	..	..	23,270·40	36·36		
		Total ..	183,558·40	286·81	..	..	183,558·40	286·81		
Malabar (Wynaad and Pálghat).	Pálghat	Wálayár	3,017	4·71	..	..	3,017	4·71	No. 178, F.S.G.G., dated 6th Nov. 1883, part I.	The areas were ascertained by actual survey.
	Wynaád	Kuppadi	..	..	7,337·44	..	7,337·44	..	No. 112, F.S.G.G., dated 21st April 1885, part I.	
		Kurichiyát	..	..	18,053·86	..	18,053·86	..		
		Rampúr	..	..	18,854·67	..	18,854·67	..	No. 160, F.S.G.G., dated 23rd June 1885, part I.	
		Núlpoya	..	..	3,613·28	..	3,613·28	..		
		Mavanahalli	..	..	12,576·64	..	12,576·64	..	No. 191, F.S.G.G., dated 24th July 1885.	
		Bégúr	..	..	15,366	..	15,366	..		
		Total ..	3,017	4·71	75,801·89	..	78,818·89	123·15		
Malabar (Nilambúr.	Ernád taluk	Karimpôya	3,955·28	6·18	..	..	3,955·28	6·18	....	Reserved under section 25.
		Amarampalam	57·14	0·08	* 2·13	..	468 04	..	....	* As per survey map.
		Do.	..	..	† 408·77					† Plantation area omitted last year.
		Chatamborai	..	..	699·52	..	699·52	..	No. 174, F.S.G.G., dated 7th July 1885, part I.	
		Nellikutta	..	..	1,824·13	..	1,824·13	..	G.O., No. 189, dated 15th March 1886.	Transferred from 59B.
		Total ..	4,012·42	6·26	2,934·55	..	6,946·97	10·85		
South Canara.	....	Sabládi	208	0·32	..	..	208	·32	....	Survey not finally plotted. Correct calculations may show a slight difference.
	....	Ajjarkád	160	0·25	..	..	160	·25		
	....	Pillarkhán	320	0·50	..	..	320	·50		
	....	Chembuguddi	75	0·11	..	..	75	·11		
	....	Kuttiyár	25	0·04	..	..	25	·04		
	....	Poitage Kayar Pallar ..	96	0·15	..	..	96	·15		
		Total ..	884	1·37	..	..	884	1·37		
		Grand Total ..	712,549·63	1,113·35	272,590·77	8,425·92	976,714·48	1,526·12		

Annual Form No. 59-B.

Forest Department, Madras, Southern Circle.

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882.

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Saidápet	Tandrai	664	..	..	664	..	..	....	Transferred to 59-A.
		Tirukalikundram	697	..	..	697	..	..	....	
		Oragadam	540	..	..	540	..	..	....	
		Maddayattur	697	..	..	697	..	..	....	
		Kambakam	13,705	..	..	13,705	..	..	....	
		Pandur	1,262	..	..	1,262	..	..	....	
	Tiruvallúr	Dasikuppam	339	..	..	339	..	..	....	Transferred to 59-C.
		Chenneri	553	..	..	553	..	..	....	
		Pudukuppam	958	..	..	958	..	..	....	
		Ambakam	2,300	..	..	2,300	..	..	....	
		Peridam	1,109	..	..	1,109	..	..	....	
		Sattivedu	2,633	..	..	2,633	..	..	....	
		Kotamarikuppam	1,890	..	..	1,890	..	..	....	
		Chinnatipakam	2,337	..	..	2,337	..	..	....	
		Aradur	1,002	..	..	1,002	..	..	....	
		Rachesla	415	..	..	415	..	..	....	
		Mappurpalli	858	..	..	858	..	..	....	
		Cherisu	404	..	..	404	..	..	....	
		Kadur	1,433	..	..	1,433	..	..	....	
		Nellatur	608	..	..	608	..	..	....	
		Gudalvarpalaiyam	454	..	..	454	..	..	....	
		Santanellore	580	..	..	580	..	..	....	
		Ugumudy	1,441	..	..	1,441	..	..	....	
		Damavellore	885	..	..	885	..	..	....	
		Plasapalaiyam	993	..	..	993	..	..	....	
		Hudsonpuram	920	..	..	920	..	..	....	
		Embrampuram	1,334	..	..	1,334	..	..	....	
		Hudsonnagaram	506	..	..	506	..	..	....	
		Allikuli	832	..	..	832	..	..	....	
		Gangalukandigai	407	..	..	407	..	..	....	
		Grinvalattam	657	..	..	657	..	..	....	
		Namalur	938	..	..	..	938	..	....	
		Kallanur	482	..	..	..	482	..	....	
		Chengugram	327	..	..	..	327	..	....	
		Pelvakam	436	..	..	..	436	..	....	
		Sirnai	331	..	..	..	331	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addirion or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput—*contd.*	Tiruvallúr—*contd.*	Sunkarai	630	..	..	..	630	..	....	
		Mukarambakam	590	..	..	..	590	..	....	
		Nagalapuram	4,557	..	..	4,557	..	..	....	Transferred to 59-C.
		Ramgiri	1,684	..	..	1,864	..	..	....	
		Kishnapuram	272	..	..	272	..	..	....	
		Reppalpatti	2,222	..	..	2,222	..	..	....	
		Mudiyur	655	..	..	655	..	..	....	
		Kolatúr	248	..	..	..	248	..	....	
		Palavakam	436	..	..	..	436	..	....	
		Irukolu	156	..	..	..	156	..	....	
		Total	57,377	89·65	..	52,803	4,574	7·15		
North Arcot	Vellore. Vellore taluk	Tellai	12,800	..	..	12,800	..	..	....	Transferred to 59-C.
	Vellore. Tirupatúr taluk.	Sandal reserve	12,800	..	..	12,800	..	..	....	
		Timber reserve	19,200	..	..	19,200	..	..	....	
	Palmáner. Palmáner taluk.	Musalimadugu	9,600	..	..	9,600	..	..	....	Transferred to 59-A.
		Basuvareddipalle	10,240	..	..	10,240	..	..	....	
	Palmáner. Palmáner and Gudiyátam taluks.	Mortana reserve	16,000	..	..	16,000	..	..	....	
		Naikaneri reserve	6,400	..	..	6,400	..	..	....	
		Peddur	9,600	..	..	9,600	..	..	....	
	Chandragiri. Chandragiri taluk.	Napier reserve	8,772	..	..	8,772	..	..	....	
		Mamandur reserve	1,776	..	..	1,776	..	..	....	
		Chamala reserve	9,600	..	..	9,600	..	..	....	
		Panapak reserve	6,400	..	..	6,400	..	..	....	
		Podiyatlabail	2,560	..	..	2,560	..	..	....	
	Chittoor taluk.	Paradarami	6,400	..	..	6,400	..	..	....	
		Total	132,148	206·48	..	132,148	..	..		
South Arcot	Tiruvannámalai taluk.	Tenmalai	23,040	..	..	23,040	..	..	....	Transferred to 59-C.
		Mudinai forest	3,840	..	..	3,840	..	..	....	
		Chinnasamudram	6,400	..	..	6,400	..	..	....	
		Perungolatturswami malai	4,800	..	..	4,800	..	..	....	
		Annamalai kasba hill and neighbourhood.	3,840	..	..	* 1,760	2,080	..	....	* Transferred to 59-A.
		Tandrampet	11,500	..	..	..	11,500	..	....	
		Kadambai	1,000	..	..	..	1,000	..	....	
		Tippakadu	6,000	..	..	6,000	..	..	....	Transferred to 59-C.
		Tachampet including Atipakam	1,000	..	..	..	1,000	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*continued.*	Tindivanam taluk—*continued.*	Muttakadu	3,087	..	..	3,087	..	..	....	Transferred to 59-C.
		Siruvadi (including Kotamangalam).	3,333	..	..	3,333	..	..	....	Transferred to 59-C.
		Annamangalam	250	..	..	..	250	..	....	
		Valland Sevur	1,115	..	..	..	1,115	..	....	
		Padipallam	3,735	..	..	3,735	..	..	....	Transferred to 59-C.
		Periyanur Pakamalai	9,026	..	..	9,026	..	..	....	Transferred to 59-C.
		Nangilikondan	50	..	..	..	50	..	....	
		Natamangalam	30	..	..	..	30	..	....	
		Vilukam	100	..	..	..	100	..	....	
		Peradikuppam	1,400	..	..	1,400	..	..	....	Transferred to 59-C.
		Agur	1,500	..	..	1,500	..	..	....	Transferred to 59-C.
		Nanduvandur	2,500	..	..	2,500	..	..	....	Transferred to 59-C.
		Bomnatur	300	..	..	300	..	..	....	Transferred to 59-C.
		Panchalam	1,200	..	..	1,200	..	..	....	Transferred to 59-C.
		Saram	150	..	..	150	..	..	....	Transferred to 59-C.
		Olakur	300	..	..	..	300	..	....	
		Roshanai	50	..	..	..	50	..	....	
		Salavadi	70	..	..	70	..	..	....	Transferred to 59-C.
		Jaggampet	340	..	..	340	..	..	....	Transferred to 59-C.
		Edayalam	400	..	..	..	400	..	....	
		Eriyanur	95	..	..	..	95	..	....	
		Janagampet	108	..	..	..	108	..	....	
		Kilsevur	1,200	..	..	1,200	..	..	....	Transferred to 59-C.
		Senalur	150	..	..	..	150	..	....	
		Mannur	50	..	..	..	50	..	....	
		Nemmali	300	..	..	..	300	..	....	
		Endur	50	..	..	..	50	..	....	
		Bramhadesam	50	..	..	..	50	..	....	
		Vannipper	50	..	..	..	50	..	....	
		Kamalampet	1,200	..	..	1,200	..	..	....	Transferred to 59-C.
		Nadukuppam to Bramhadesam	400	..	..	..	400	..	....	
		Alatúr	300	..	..	300	..	..	....	Transferred to 59-C (included in Kurambaram Bits, Nos. 1 and 2).
		Kandadu	370	..	..	..	370	..	....	
		Omapper	20	..	..	..	20	..	....	
		Atikuppam	185	..	..	185	..	..	....	Transferred to 59-C.
		Merkanam	500	..	..	500	..	..	....	Transferred to 59-C.

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*continued.*	Tindivanam taluk—*continued.*	Mailam	265	..	..	..	265	..	....	
		Karai	1,344	..	..	1,344	..	..	....	Transferred to 59-C.
		Tandavasamudram	3,000	..	..	..	3,000	..	....	
		Matur	540	..	..	..	540	..	....	
		Gangavaram	8,740	..	..	8,740	..	..	....	Transferred to 59-C.
		Turinjikadu	1,104	..	..	..	1,104	..	....	
		Odayanatam and Kadagam	1,000	..	..	..	1,000	..	....	
		Vanur first bit	200	..	..	..	200	..	....	
		Vanur second bit	150	..	..	..	150	..	....	
		Kolikoil	200	..	..	..	200	..	....	
		Chengadu	100	..	..	..	100	..	....	
		Vakkur	200	..	..	..	200	..	....	
		Kappiyanur	545	..	..	..	545	..	....	
		Mutampalaiyam	50	..	..	..	50	..	....	
		Navamal Maradur	80	..	..	..	80	..	....	
		Aliyur	70	..	..	..	70	..	....	
		Neliyanur	70	..	..	..	70	..	....	
		Valavanur	344	..	..	..	344	..	....	
		Pakam	350	..	..	..	350	..	....	
	Villupuram taluk	Sorapur	50	..	..	..	50	..	....	
		Marudur	70	..	..	..	70	..	....	
		Villupuram kasba tank	100	..	..	..	100	..	....	
		Valutareddi	130	..	..	..	130	..	....	
		Kondampakam	60	..	..	..	60	..	....	
		Olaikai	50	..	..	..	50	..	....	
		Kappur	50	..	..	..	50	..	....	
		Kondangi	100	..	..	..	100	..	....	
		Nannadu	100	..	..	..	100	..	....	
		Perumbakam	100	..	..	..	100	..	....	
		Devanampet	100	..	..	..	100	..	....	
		Tiruvamatur	28	..	..	..	28	..	....	
		Tennamadevi	51	..	..	..	51	..	....	
		Adanur	1,449	..	..	..	1,449	..	....	
		Oratur	228	..	..	..	228	..	....	
		Tangal	57	..	..	..	57	..	....	
		Karanai	200	..	..	..	200	..	....	
		Gundalapuliyur	844	..	..	..	844	..	....	
		Siravalai (Arumbili)	1,014	..	..	..	1,014	..	....	
		Vembi	256	..	..	..	256	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 31st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot.—*continued.*	Villupuram taluk—*continued.*	Narasinganur	377	..	..	..	377	..	....	
		Vikravándi proper	450	..	..	..	450	..	....	
		Do. tangal	20	..	..	..	20	..	....	
		Melakondai	495	..	..	..	495	..	....	
		Satanur	233	..	..	..	233	..	....	
		Panampattu	250	..	..	..	250	..	....	
		Saliyampalaiyam	70	..	..	..	70	..	....	
		Nemmali	100	..	..	..	100	..	....	
		Dadavaram	200	..	..	..	200	..	....	
		Tiruvakkarai	1,000	..	..	..	1,000	..	....	
		Tuluvai	150	..	..	..	150	..	....	
		Ramapuram and Valicheripalaiyam.	1,091	..	..	..	1,091	..	....	
		Vellakarai	1,600	..	..	..	1,600	..	....	
		Sebambanadampet	651	..	..	..	651	..	....	
		Budrakotai	344	..	..	..	344	..	....	
		Sammatikuppam	343	..	..	..	343	..	....	
	Cuddalore taluk	Chinnadamakuppam and Kallujagai	700	..	..	..	700	..	....	
		Velankuppam	1,000	..	..	..	1,000	..	....	
		Kangiruppu	2,250	..	..	..	2,250	..	....	
		Vadakutu	3,400	..	..	..	3,400	..	....	
		Velrampet	1,800	..	..	..	1,800	..	....	
		Vellaiyankuppam	1,700	..	..	..	1,700	..	....	
		Kaliyankuppam	150	..	..	..	150	..	....	
		Kuttiyambakam	100	..	..	..	100	..	....	
		Siruvatur	300	..	..	..	300	..	....	
	Chidambaram taluk	Pichavaram	2,000	..	..	..	2,000	..	....	
		Ramapakam	800	..	..	..	800	..	....	
		Kondapuram	1,200	..	..	..	1,200	..	....	
		Pavanjinallur	200	..	..	..	200	..	....	
		Kollatankurchi	350	..	..	..	350	..	....	
		Nisangam	800	..	..	..	800	..	....	
		Adivaraganallur	1,200	..	..	..	1,200	..	....	
		Kolakudi (east of road)	600	..	..	..	600	..	....	
		Pinnalur Wálajápet tank block	400	..	..	..	400	..	....	
		Manamádévi	150	..	..	..	150	..	....	
		Viranam tank	1,500	..	..	..	1,500	..	....	
	Vriddháchalam taluk	Velankulam and Vennakuli	500	..	..	..	500	..	....	
		Semakotai and Palaiyapatnam	4,500	..	..	..	4,500	..	....	
		Pallipattu	1,500	..	..	..	1,500	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square mile.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*continued.*	Vriddhâchalam taluk —*continued.*	Erulakurchi (Nadiyapet)	300	..	..	..	300	..	....	
		Melakuppam kulam	600	..	..	..	600	..	....	
		Parur	3,000	..	..	..	3,000	..	....	
		Narimadam	600	..	..	..	600	..	....	
		Ammeri	500	..	..	..	500	..	....	
		Kuppanatam	750	..	..	..	750	..	....	
		Satamangalam	200	..	..	..	200	..	....	
		Arasuguli	100	..	..	..	100	..	....	
		Kolapakam	600	..	..	..	600	..	....	
		Kammapuram	600	..	..	..	600	..	....	
		Karmangudi	2,000	..	..	..	2,000	..	....	
		Narasingamangalam	1,200	..	..	..	1,200	..	....	
		Kotanur	2,700	..	..	..	2,700	..	....	
		Memadur	500	..	..	..	500	..	....	
		Pillur	800	..	..	..	800	..	....	
		Pulambodi	2,000	..	..	..	2,000	..	....	
		Alambalam	2,000	..	..	..	2,000	..	....	
		Aderi	1,000	..	..	..	1,000	..	....	
		Katumailur	800	..	..	..	800	..	....	
		Naraiyur	3,000	..	..	..	3,000	..	....	
		Nangur	1,800	..	..	..	1,800	..	....	
		Mangalam	300	..	..	..	300	..	....	
		Alliyur	150	..	..	..	150	..	....	
		Pinjanur	200	..	..	..	200	..	....	
		Kasba tank	200	..	..	..	200	..	....	
	Tirukoilûr taluk	Nattamur	9,500	..	..	..	9,500	..	....	
		Chitamur	3,000	..	..	..	3,000	..	....	
		Arunavaram	2,650	..	..	..	2,650	..	....	
		Odiyatur	2,500	..	..	..	2,500	..	....	
		Endur	1,000	..	..	..	1,000	..	....	
		Virinjipuram and Kandachepuram	1,500	..	..	..	1,500	..	....	
		Adukam (Tandrai)	1,500	..	..	..	1,500	..	....	
		Atipakam	2,000	..	..	..	2,000	..	....	
		Sadakati	500	..	..	..	500	..	....	
		Swamimalai	4,000	..	..	..	4,000	..	....	
		Marudur (Kunnaturmalai)	2,220	..	..	..	2,220	..	....	
		Ulandurpet (Pandur)	2,500	..	..	..	2,500	..	....	
		Edakal proper (south side)	900	..	..	..	900	..	....	
		Edakal proper (north of road)	3,600	..	..	..	3,600	..	....	
		Alwarmalai	6,500	..	..	..	6,500	..	....	
		Siruvakam	1,200	..	..	..	1,200	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*continued.*	Tirukoilúr taluk—*continued.*	Kuladi	2,250	..	..	..	2,250	..	..	
		Sidevi	3,000	..	..	..	3,000	..	..	
		Kunjaram	1,500	..	..	..	1,500	..	..	
		Kallamedu	500	..	..	..	500	..	..	
		Elandorai (late Ponnavalam)	200	..	..	..	200	..	..	
		Tiruvennanallúr	40	..	..	..	40	..	..	
		Emappur	70	..	..	..	70	..	..	
		Siruvanur	50	..	..	..	50	..	..	
		Irruvelpet	50	..	..	..	50	..	..	
		Melamangalam	40	..	..	..	40	..	..	
		Mámandúr	50	..	..	..	50	..	..	
		Gramam	40	..	..	..	40	..	..	
		Elandorai tank	40	..	..	..	40	..	..	
		Panapakam	50	..	..	..	50	..	..	
		Sitilingamandam	70	..	..	..	70	..	..	
		Maradur tank bed	60	..	..	..	60	..	..	
		Pudupalaiyam	40	..	..	..	40	..	..	
		Palayagaram	65	..	..	..	65	..	..	
	Kallakurchi taluk	Kanakadu	1,200	..	..	..	1,200	..	..	
		Kadambúr	100	..	..	..	100	..	..	
		Kaduvanur	1,500	..	..	..	1,500	..	..	
		Katuvananjur	800	..	..	..	800	..	..	
		Lálápet forest (including Chittal)	1,500	..	..	..	1,500	..	..	
		Vengalam (Pasar)	3,000	..	..	..	3,000	..	..	
		Rishivendiyam	3,000	..	..	..	3,000	..	..	
		Nilamangalam	150	..	..	..	150	..	..	
		Emaputtur	1,000	..	..	..	1,000	..	..	
		Kolatúr	300	..	..	..	300	..	..	
		Indali	1,000	..	..	..	1,000	..	..	
		Kotalammalai	2,500	..	..	..	2,500	..	..	
		Nagalur	900	..	..	..	900	..	..	
		Porasakurchi	750	..	..	..	750	..	..	
		Varanasaram	450	..	..	..	450	..	..	
		Kuttakudi	1,000	..	..	..	1,000	..	..	
		Kilanariyappanur	1,500	..	..	..	1,500	..	..	
		Vardiyappanur	500	..	..	..	500	..	..	
		Chinna Salem	200	..	..	..	200	..	..	
		Toftapadi	250	..	..	..	250	..	..	
		Total	253,932	396·76	..	85,950	167,982	262·47		

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem	....	....	..	..	..	..	..	..	....	
Trichinopoly ..	Kulitalai taluk ..	Tuvagudi	1,438	..	..	1,438	..	..	....	Transferred to 59-C.
		Sripurandan	486	..	..	..	486	..	....	
		Nagamangalam	400	..	..	..	400	..	....	
		Total ..	2,324	3·63	..	1,438	886	1·38	....	
Tanjore	Northern range ..	Vettangudi	1,900	..	..	..	1,900	..	....	
		Kodiyakadu (Point Calimere) ..	4,355	..	..	4,355	..	..	....	Transferred to 59-C.
		Andrakadu	64	..	..	..	64	..	....	
		Settipallam	421	..	..	..	421	..	....	
		Samudravéli	270	..	..	..	270	..	....	
		Naluvedapadi	374	..	..	..	374	..	....	
		Pudugidapatam	66	..	..	..	66	..	....	
		Tandalai	283	..	..	..	283	..	....	
	Western range ..	Nadur	421	..	..	..	421	..	....	
		Ichankotai	77	..	..	..	77	..	....	
		Kollangorai	109	..	..	..	109	..	....	
		Marungulam	152	..	..	..	152	..	....	
		Karungulam Melpadi	389	..	..	..	389	..	....	
		Tachankurchi	161	..	..	..	161	..	....	
		Pudukudi Vadapadi	212	..	..	..	212	..	....	
		Kangiyampatti	67	..	..	..	67	..	....	
		Kannanitangudi Kilayur	232	..	..	..	232	..	....	
		Puvadur	205	..	..	..	205	..	....	
		Tirumangalakotai Vulayur	437	..	..	..	437	..	....	
		Do. Melayur ..	514	..	..	..	514	..	....	
		Ponnappur	181	..	..	..	181	..	....	
		Apparasampet	76	..	..	..	76	..	....	
		Total ..	10,966	17·13	..	4,355	6,611	10 33		
Coimbatore North)	....	....	..	..	..	..	4,355	..	....	
Coimbatore (South).	Udamalpet	Fuel reserve of Eliyamutur ..	63	..	..	..	63	..	....	
		Do. of Tandoni	60	..	..	..	60	..	....	
		Do. of Dhalli	485	..	..	..	485	..	....	
	Palladam	Arasur	58	..	..	..	58	..	....	
		Nachipalaiyam	63	..	..	..	63	..	....	
		Ammapalaiyam	61	..	..	..	61	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Coimbatore (South)—*contd.*	Palladam—*continued.*	Kaduvellipalaiyam	82	..	..	..	82	..	....	
		Permanallur	81	..	..	..	81	..	....	
		Pedumpalaiyam	66	..	..	..	66	..	....	
		Kotamangalam	3	..	..	..	3	..	....	
		Chinnamalaipalaiyam	9	..	..	..	9	..	....	
		Gudimangalam	5	..	..	..	5	..	....	
		Pulamkinar	4	..	..	..	4	..	....	
		Pukkulam	14	..	..	..	14	..	....	
		Pulavadi	8	..	..	..	8	..	....	
		Madatukulam	3	..	..	..	3	..	....	
		Kanatkadavu	8	..	..	..	8	..	....	
		Sankarayapuram	100	..	..	..	100	..	....	
		Mutiyampalaiyam	4	..	..	..	4	..	....	
		Periyakolandai	3	..	..	..	3	..	....	
		Kotampatti	6	..	..	..	6	..	....	
		Anupatti	3	..	..	..	3	..	....	
		Sittambalam	3	..	..	..	3	..	....	
		Kottamur	3	..	..	..	3	..	....	
		Manikapuram	5	..	..	..	5	..	....	
		Tirupúr	5	..	..	..	5	..	....	
		Vadugapalaiyam	8	..	..	..	8	..	....	
		Ganapadipalaiyam	5	..	..	..	5	..	....	
		Appanaiyakanpatti	10	..	..	..	10	..	....	
		Nilambúr	10	..	..	..	10	..	....	
		Silakarakal	5	..	..	..	5	..	....	
		Agrarapatur	5	..	..	..	5	..	....	
	Bolampatti	At the toll-gate on the road to Tadagam	9	..	..	..	9	..	....	
		At the toll-gate east of Puliyakulam road	55	..	..	..	55	..	....	
		Total	1,312	2·05	..	..	1,312	2·05	....	
		Old Railway tracts.								
Madura	No. III or Dindigul range.	Akkamakaradu	1,600	2·50	..	1,600	..	..	Notification No. 101, dated 19th March 1886, published in *Fort St. George Gazette* of 24th March 1886.	Transferred to 59-A.
		Kupiranikuttu	2,560	4	..	2,560	..	..		
		Sundamalai	2,240	3·50	..	2,240	..	..		
		Tannirkaradu	1,920	3	..	1,920	..	..		
		Tenikal	3,200	5	..	3,200	..	..		
	No. V, Madura range.	104 tank beds in Tirumangalam taluk	4,000	6·25	..	..	4,000	6·25		
		Total	15,520	24·25	..	11,520	4,000	6·25		

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued*.

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tinnevelly ..	....	....	..	..	..	..	..	..	....	
Malabar (Wynaad and Pálghat).	Wynaad	Kudrakot	41,500	..	..	(*a*) 41,500	..	..	....	(*a*) 15,366 acres constituted reserved forest (*vide* No. 7 of area of reserved forests) and 26,134 acres transferred to 59-C.
		Padri	22,400	..	..	22,400	..	..	....	Transferred to 59-C.
		Chedlet	44,249	..	..	(*b*) 44,249	..	..	....	(*b*) Of this 44,245·97 acres were constituted reserved forest and 3·3 acres struck off being excess erroneously entered in last year's statement.
	Pálghat	Trans benni	16,190	..	..	* 16,190	..	..	....	* Transferred to 59-A.
		Cardamom forest	13,440	..	..	13,440	..	..	....	Transferred to 59-C.
		Kanot	25,600	..	..	25,600	..	..	....	
		Chenat Nair forest	16,369	..	..	16,369	..	..	....	
		Forest land near Doni	150	..	..	150	..	..	....	Transferred 59-D.
		Tiruvazhamkunnu *alias* Pannikaradu.	1,000	..	..	1,000	..	..	....	Transferred to 59-C.
		Tamburot Putta *alias* Pilacheri Pallam.	100	..	..	100	..	..	....	
		Total ..	180,998	282·81	..	180,998	..	..		
Malabar (Nilambúr).	Nilambúr	Nellikutta	1,799	..	..	1,799	..	..	....	Transferred to 59-A.
		Pokote	761	..	..	..	761	..	....	
		Panangod	462	..	† 397·09	..	859·09	..	....	† Plantation area omitted in previous year's returns.
		Chatambarai	61	..	..	‡ 61	..	..	....	‡ Transferred to 59-A.
		Valuvasheri	330	..	† 584	..	914	..	....	
		Edakód	3,666	..	† 692·52	..	4358·52	..	....	
		Arimbrakutta	300	..	† 22	..	322	..	....	
		Kanakut	669	..	..	..	669	..	....	
		Erambadam	581	..	..	..	581	..	....	
		Kariyan	951	..	† 51·10	..	1002·10	..	....	
		Muriyat	1,765	..	..	..	1,765	..	....	
		Total ..	11,345	17·72	1,746·71	1,860	11,231·71	17·55		
South Canara ..	....	....	..	..	..	..	..	..		
		Grand Total ..	665,922	1,040·50	1,746·71	471,072	196,597	307·19		

Annual Form No. 59-C.

Forest Department, Madras, Southern Circle.

Area of Reserved Lands, Forests, 1885-86.

[Note.—When necessary, this form may be used for Forests other than those reserved under the Madras Act.]

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Chingleput	Tiruvallúr	Pulrambakam	408	..	..	..	408	..	Board's Procs., No. 3195 Forest 288, dated 12th Sept. 1884.	
		Kanneripettai	71	..	..	..	71	..		
		Tiruvalambudur	62	..	..	..	62	..		
		Dásikuppum	..	..	339	..	339	..		Notified under section 4 in February 1885.
		Chennéri	..	..	553	..	553	..		
		Pudukuppam	..	..	958	..	958	..		
		Ambákam	..	..	2,300	..	2,300	..		
		Péridam	..	..	1,109	..	1,109	..		
		Sattivédu	..	..	2,633	..	2,633	..		
		Kotamárikuppam	..	..	1,890	..	1,890	..	....	Do. do. do.
		Chinnatipakam	..	..	2,336	..	2,336	..		
		Aradúr	..	..	1,002	..	1,002	..		
		Rácherla	..	..	415	..	415	..		Do. do. do.
		Móppúrpalle	..	..	859	..	859	..	....	Transferred from 59-B.
		Cherisu	..	..	404	..	404	..		
		Kádúr	..	..	1,432	..	1,432	..		
		Nellatúr	..	..	608	..	608	..	....	Notified under section 4 in February 1885.
		Gúdalvárpálaiyam	..	..	455	..	455	..		
		Santanellore	..	..	580	..	580	..		
		Ugumudi	..	..	1,441	..	1,441	..	....	Do. do. do.
		Dámanallúr	..	..	885	..	885	..		
		Plasapalaiyam	..	..	993	..	993	..	....	Do. do. do.
		Hudsonpuram	..	..	920	..	920	..		
		Embrampuram	..	..	1,334	..	1,334	..		
		Hudsonnagaram	..	..	506	..	506	..		
		Allikuli	..	..	832	..	832	..	....	Transferred from 59-B.
		Gangalúkandigai	..	..	407	..	407	..		
		Grinvalattam	..	..	657	..	657	..		Notified under section 4 in March 1885.
		Nágalápuram	..	..	4,557	723	3,834	..		
		Rámgiri	..	..	1,684	151	1,533	..		
		Kishnápuram	..	..	272	160	112	..	....	Notified under section 4 in December 1885.
		Reppalpatti	..	..	2,222	28	2,194	..		
		Mudiyúr	..	..	660	..	660	..		
	Madurántakam	Lattur	1,011	..	..	..	1,011	..		
		Nadumaram	198	..	..	..	198	..		
		Venmani	238	..	..	..	238	..		
		Madayambakam	241	..	..	..	241	..		
		Sattamai	135	..	..	..	135	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Chingleput—*cont.*	Madurántakam—*cont.*	Kattugudalur	4,273	..	..	..	4,273	..		
		Rajapalaiyam	806	..	..	..	806	..		
		Acharapákam	924	..	..	60	864	..	Board's Procs., No. 2767 Forest 543, dated 29th September 1885.	
		Kurambarai	250	..	..	..	250	..		
		Endatur	168	..	..	..	168	..		
		Tandalam	1,587	..	..	..	1,587	..		
		Tirunallur	503	..	..	..	503	..		
		Kannimangalam	142	..	..	..	142	..		
		Narayamputtur	326	..	..	..	326	..		
		Karukali	600	..	..	..	600	..		
		Kadalamangalam	731	..	..	..	731	..		
		Vadatavur	1,078	..	..	..	1,078	..		
		Vinayaganallur	127	..	..	..	127	..		
		Kunamkolattur	106	..	..	..	106	..		
		Bapanallur	538	..	..	..	538	..		
	Conjeeveram	Katrambakam	..	..	601	..	601	..	Board's Procs., No. 1294 242-A, dated 30th April 1885.	
		Puduppur	..	..	90	..	90	..		
		Mannur	..	..	585	..	585	..		
	Chingleput	Muttukadu	..	..	86	..	86	..	Board's Procs., No. 1413 90, dated 25th April 1885.	
		Vandalúr	..	..	3,207	..	3,207	..	....	Notified under section 4 in March 1885.
	Saidápet. Ponnéri taluk .. Saidápet do. ..	Alamari	..	..	1,263	..	1,263	..	Board's Procs., Forest No. 661, dated 1st December 1885.	Notified under section 4 in January 1886.
		Total ..	14,523	22·69	41,074	1,122	54,475	85·12		
North Arcot.	Vellore—Pólúr taluk ..	Kapalur	1,280	2	..	* 13	1,267	1·97	....	Demarcated.
		Kelur	3,068	4·79	* 469	..	3,537	5·52		
		Alliyamangalam	10,502	16·4	..	* 440	10,062	15·72		
	Chandragiri—Chittoor taluk.	Chittoor	2,560	4	..	† 2200·36	359·64	·56	....	Demarcated and surveyed.
		Santapet	2,560	4	..	† 283·54	2276·46	3·55		
		Airala	6,400	10	..	..	6,400	10		
		Panamúr	6,400	10	..	..	6,400	10		
		Bommasamudram	3,000	4·68	..	1574·09	1425·92	2·22		
		Chillapalle	1,063	1·66	† 232·85	..	1295·85	1·97		
		Kinatipalle	2,856	4·46	..	† 1439·49	1416·51	2·21		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*contd.*	Headquarters. Wálajápet taluk.	Gúdalúr	559	·87	..	* 23·61	535·39	·83	....	Demarcated, surveyed and fenced.
		Kolatur	1,996	3·11	..	* 216·88	1779·12	2·77		
		Ammanur	210	·32	..	* 6·73	203·27	·31		
		Uriyúr or Anantapuram ..	672	1·05	..	* 132·21	539·79	·84		
		Banavaram	1,071	1·67	* 34·55	† 21	1084·55	1·69		
		Amur	6,018	9·4	* 1·52	..	6019·52	9· 4	....	Partly demarcated.
		Minnel	1,395	2·1	..	17·41	1377·59	2·15	....	Partly demarcated, surveyed and fenced.
	Arcot taluk.	Sátúr	1,048	1·63	..	..	1048·	1·63		
		Sennaleri	1,185	1·85	..	* 829	356·	·55		
		Enadivadi	1,566	2·44	..	..	1566·	2·44	....	Demarcated.
		Tandalappan tangal ..	1,154	1·8	..	..	1154·	1· 8		
		Sholavaram	1,281	2·	..	..	1281·	2·		
		Ponnur	1,676	2·61	..	* 736·56	939·44	1·46	Board's Procs., No. 2700 / Forest 222, dated 6th August 1884.	Demarcated, surveyed and fenced.
		Venkundram	822	1·28	* 466·10	..	1288·10	2·01		
		Badur	829	1·29	* 44·65	..	873·35	1·36		
	Wandiwash taluk.	Nombidu	929	1·45	..	208·89	720·11	1·12	....	Demarcated.
		Kodiyalam	255	·39	..	130·20	124·80	·19	....	Demarcated, surveyed and fenced.
		Nedungal	3,632	5·67	* 13·10	..	3645·10	5·69		
		Vishamangalam	1,148	1·79	* ·10	..	1148·10	1·79		Demarcated.
		Nedugunam	1,798	2·80	..	† ·82	1797·18	2·80	....	
		Brahma Katteri	1,589	2·48	..	953·99	635·1	·99		
	Vellore—Pólúr taluk ..	The slopes of the Javadi hills in the Pólúr taluk including the jungle at their foot.	..	..	32,000	..	32,000	50	Board's Procs., No. 4214 / Forest 436, dated 8th December 1884.	
		Putur (Old Tirupatúr sandal reserve).	..	..	12,800	..	12,800	20	....	Transferred from 59-B. Demarcated.
		Patrakad (Do. timber reserve).	..	..	19,200	..	19,200	30		Notified under section 4.
	Vellore—Vellore taluk ..	Javadi Hills block	..	..	Say 64,000	..	64,000	100	Board's Procs., No. 993 / Forest 183, dated 25th March 1885.	
		Arasampet do.								
		Naikaner do.								
		Tellai	..	..	15121·01	..	15121·01	23·62	....	Demarcated and surveyed. Transferred from 59-B.

* Corrected according to Board's Proceedings.
† Do. do. to Survey.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot —*contd.*	Chandragiri — Chandragiri taluk	Ballipalle block	..	..	Say 96,000	..	96,000	150	Board's Procs., No. 2329 / Forest 436' dated 13th August 1885.	
		Nagapatla do.								
		Mungilpentla do.								
	Palmaner — Gudiyátam taluk	Korapatla do.	..	..	say 32,000	..	32,000	50	Board's Procs., No. 4214, dated 8th December 1884.	Demarcated and fenced.
		Pettalakuppam do.								
		Gundalapalle								
		Panamadangi block								
	Headquarter — Wálajápet taluk	Vikramasi reserve	161	·25	..	..	161	·25	....	
		Vidantangal	..	..	64·46	..	64·46	·09	....	
		Balakishnapuram	..	..	63·4	..	63·4	·07	....	
		Katupakam	..	..	145·24	..	145·24	·22	....	
		Ayal	..	..	15·83	..	15·83	·02		
		Tenkal	120	18	130	..	250	·39		
		Head Assistant Collector's office compound.	..	..	—4	..	4	..	....	Notified under section 4 in January 1884.
		Total ..	70,803	110 62	272805·81	9227·78	334381·03	522·47	....	
South Arcot.	Tindivanam	Siruvadi	..	..	3,333	..	3,333	..	....	Transferred from 59-B.
		Muttakadu	..	..	3,087	..	3,087	..	....	
		Kárái	..	..	1,344	..	1,344	..	....	Notified under section 4 in June 1885.
		Padipallam	..	..	3,735	..	3,735	..	....	
		Pakamalai	..	..	9,026	..	9,026	..	....	
	Villupuram	Gangavaram	..	..	8,740	..	8,740	..	....	Transferred from 59-B.
		Chinnasamudram	..	..	6,400	400	6,000	..	....	Do. do. 59-D.
		Anandavadi	..	..	6,400	400	6,000	..	....	
		Valasamalai	..	..	7,040	40	7,000	..	....	Do. do. 59-B.
		Mudinai forest	..	..	4,000	..	4,000	..	....	Do. do. 59-D.
		Kavutumalai	..	..	6,400	400	6,000	..	....	Transferred from 59-B. and D.
		Tippakadu	..	..	6,400	400	6,000	..	....	
	Tiruvannámalai taluk ..	Perungolatur Swamimalai	..	..	10,880	1,880	9,000	..	....	Notified under section 4 in December 1885. Transferred from 59-B. and D.
		Tenmalai	..	..	23,040	3,040	20,000	..	....	Transferred from 59.B.
		Pilamaratur or Gerugamandiyar.	..	..	8,000	..	8,000	..	....	
		Nallapattu	..	..	7,000	..	7000	..	....	
	Tindivanam	Agaram	..	..	600	..	600	..	....	Notified under section 4 in January 1886.
		Merkanam	..	..	500	420	80	..	....	
		Kurambaram, first bit	..	..	300	..	300	..	....	Transferred from 59-B.
		Do. second bit	..	..	150	..	150	..	....	

Area of Reserved Lands, Forests, 1885-86—*continued*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
South Arcot —*contd.*	Tindivanam—*continued* ..	Kamalampet	..	..	1,200	..	1,200	..	....	Transferred from 59-B.
		Kilsevur	..	..	1,200	..	1,200	..		
		Panchalam	..	..	1,200	..	1,200	..		
		Bomnatur	..	..	300	..	300	..		
		Peradikuppam	..	..	1,400	..	1,400	..		
		Agur	..	..	1,500	300	1,200	..		
		Nanduvandur	..	..	2,800	..	2,800	..	....	Do. do.
		Saram	..	..	250	..	250	..		
		Salavádi	..	..	70	..	70	..		Notified under section 4 in January 1886.
		Jággampet	..	..	340	40	300	..		
		Atikuppam	..	..	185	35	150	..		
		Akshikádu	..	..	450	..	450	..		
		Total ..	..	..	127,270	7,355	119,915	187·37		
Salem	Salem	Bodamalai reserve	5,600	8·75	..	..	5,600	8·75		
	Atúr and Námakal ..	Karavallikombai reserve ..	8,755	13·68	..	..	8,755	13·68		
	Námakal	Jambutu reserve	2,617	4·09	..	..	2,617	4·09		
		Puliyan shola reserve ..	5,530	8·64	..	..	5,530	8·64		
		Varagúr	2,675	4·18	..	..	2,675	4·18		
		Náyakankombai	2,880	4·50	..	..	2,880	4·50		
		Belur reserve	6,880	10·75	..	..	6,880	10·75		
	Atúr	Nágúr do.	3,757	5·87	..	..	3,757	5·87		
		Pattimedu reserve	3,046	4·76	..	..	3,046	4·76		
		Nagalur do.	6,138	9·59	..	..	6,138	9·59		
		Jumbál do.	3,680	5·75	..	..	3,680	5·75		
		Pilapadi	4,992	7·80	..	..	4,992	7·80		
		Atúr ghât reserve	3,142	4·91	..	..	3,142	4·91		
		Mallapuram ghât reserve ..	2,285	3·57	..	..	2,285	3·57		
		Naitam chedu reserve ..	2,400	3·75	..	..	2,400	3·75		
	Salem	Vaniyár do. ..	4,512	7·05	..	..	4,512	7·05		
		Kuttár do. ..	3,795	5·93	..	..	3,795	5·93		
		Manjavadi do. ..	8,461	13·22	..	..	8,461	13·22		
		Kunimadavu do. ..	4,307	6·73	..	..	4,307	6·73		
		Pallipatti do. ..	8,000	12·50	..	..	8,000	12·50		
		Tumbakal do. ..	7,757	12·12	..	..	7,757	12·12		
		Nochikatti do. ..	7,917	12·37	..	..	7,917	12·37		
	Uttankarai	Kalnad do. ..	4,320	6·75	..	..	4,320	6·75		
		Chittari do. ..	3,917	6·12	..	..	3,917	6·12		
		Karungal do. ..	4,320	6·75	..	..	4,320	6·75		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Salem—*contd.*	Uttankarai—*continued* ..	Chittilingi reserve ..	6,880	10·75	..	..	6,880	10·75		
		Kottapatti do. ..	8,960	14·00	..	..	8,960	14·00		
	Tirupatúr	Mangalam do. ..	6,080	9·50	..	..	6,080	9·50		
		Nágalutu do. ..	2,560	4·00	..	..	2,560	4·00		
	Tirupatúr and Uttankarai..	Singarapet do. ..	7,398	11·56	..	..	7,398	11·56		
	Tirupatúr	Mámbakam do. ..	9,370	14·64	..	..	9,370	14·64		
		Kottanur do. ..	7,257	11·34	..	..	7,257	11·34		
		Pungolom do. ..	7,834	12·24	..	..	7,834	12·24		
		Garuggamundi do. ..	5,760	9·00	..	* 4,480	1,280	2·00	No. 243, *Fort St. George Gazette*, dated 11th September 1885.	
		Madagatar do. ..	12,480	19·50	..	† 9,280	3,200	5·00		
	Hosúr	Aiyúr do. ..	5,952	9·30	..	..	5,952	9·30		
		Marandahalli do. ..	5,824	9·10	..	..	5,824	9·10		
		Gulhatti (new) do. ..	7,942	12·41	..	..	7,942	12·41		
		Toluvabetta do. ..	6,918	10·81	..	..	6,918	10·81		
		Mancki (new) do. ..	5,632	8·80	..	..	5,632	8·80		
		Anchetti do. ..	8,832	13·80	..	..	8,832	13·80		
		Natrapalaiyam do. ..	10,880	17·00	..	..	10,880	17·00		
		Biligundla do. ..	14,272	22·30	..	..	14,272	22·30		
	Hosúr and Dharmapuri ..	Woddapatti do. ..	17,152	26·80	..	..	17,152	26·80		
	Dharmapuri	Pennagaram do. ..	10,304	16·10	..	..	10,340	16·10		
	Dharmapuri and Hosúr ..	Gutirayan do. ..	15,776	24·65	..	..	15,776	24·65		
	Dharmapuri	Morappur do. ..	16,640	26·00	..	..	16,640	26·00		
	Hosúr	Kastur do. ..	11,616	18·15	..	..	11,616	18·15		
		Bilikal do. ..	11,136	17·40	..	..	11,136	17·40		
		Malahalli do. ..	8,928	13·95	..	..	8,928	13·95		
		Taggatti do. ..	10,432	16·30	..	..	10,432	16·30		
		Halibandai do. ..	7,360	11·50	..	..	7,360	11·50		
		Pani do. ..	5,856	9·15	..	..	5,856	9·15		
		Javalagiri do. ..	6,016	9·40	..	..	6,016	9·40		
		Talli do. ..	6,368	9·95	..	..	6,368	9·95		
		Kundrákotai do. ..	4,768	7·45	..	..	4,768	7·45		
		Sivanhalli do. ..	4,992	7·80	..	..	4,992	7·80		
		Náganur do. ..	3,200	5·00	..	..	3,200	5·00		
		Denkanikóta do. ..	2,816	4·40	..	..	2,816	4·40		
	Kishnagiri	Maharajagadai do. ..	10,304	16·10	..	..	10,304	16·10		
		Neralkota do. ..	7,040	11·00	..	..	7,040	11·00		
		Bargur (new) do. ..	1,920	3·00	..	..	1,920	3·00		
	Kishnagiri and Tirupatúr..	Kotur do. ..	3,840	6·00	..	..	3,840	6·00		

* Transferred to South Arcot. † Transferred to North Arcot.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Salem—*contd.*	Tirupatúr	Mattakadapa reserve ..	2,048	3·20	..	..	2,048	3·20		
		Jalárpet do. ..	1,216	1·90	..	..	1,216	1·90		
		Narasingapuram do. ..	2,048	3·20	..	..	2,048	3·20		
		Kalvapatti do. ..	2,016	3·15	..	..	2,016	3·15		
		Alangayam do. ..	11,520	18·00	..	..	11,520	18·00		
	Tirupatúr and Uttankarai ..	Andiyappanur do. ..	4,704	7·35	..	..	4,704	7·35		
		Govindapuram do. ..	3,104	4·85	..	..	3,104	4·85		
		Uttankarai (new) do. ..	3,200	5·00	..	..	3,200	5·00		
		Wumageri do. ..	2,944	4·60	..	..	2,944	4·60		
		Kallavi do. ..	4,160	6·50	..	..	4,160	6·50		
		Puvampatti do. ..	4,672	7·30	..	..	4,672	7·30		
		Poiyapatti do. ..	3,488	5·45	..	..	3,488	5·45		
		Morappúr do. ..	4,000	6·25	..	..	4,000	6·25		
	Uttankarai	Harur (new) do. ..	1,901	2·97	..	..	1,901	2·97		
		Tirtamalai do. ..	11,046	17·26	..	..	11,046	17·26		
		Vaiyampatti do. ..	8,640	13·50	..	..	8,640	13·50		
		Kalladipatti do. ..	2,912	4·55	..	..	2,912	4·55		
		Tenkaraikota do. ..	2,368	3·70	..	..	2,368	3·70		
		Kouramalai do. ..	8,512	13·30	..	..	8,512	13·30		
		Ammapalaiyam do. ..	9,216	14·40	..	..	9,216	14·40		
		Mallapuram ghât (extension)	640	1·00	..	..	640	1·00		
		Ajampatti reserve	1,920	3·00	..	..	1,920	3·00		
		Nartamchedu (extension) reserve.	1,088	1·70	..	..	1,088	1·70		
		Yerimalai reserve	3,520	5·50	..	..	3,520	5·50		
		Kanavoipudur reserve ..	3,200	5·00	..	..	3,200	5·00		
	Salem	Lokur do. ..	5,312	8·30	..	..	5,312	8·30		
		Pillapallikombai (new) reserve.	2,080	3·25	..	..	2,080	3·25		
		Atúr ghât (extension) reserve.	544	0·85	..	..	544	0·85		
		Kanjeri (new) reserve ..	4,032	6·30	..	..	4,032	6·30		
		Pannikaradu (new) reserve..	4,832	7·55	..	..	4,832	7·55		
		Mallapuram reserve ..	589	0·92	..	..	589	0·92		
	Uttankarai	Singarapet do. ..	2,624	4·10	..	..	2,624	4·10		
	Kishnagiri	Togarapalli do. ..	500	0·78	..	..	500	0·78		
	Salem	Karavattuparai do. ..	800	1·25	..	..	800	1·25		
	....	Karambapatti do. ..	..	..	10,000	..	10,000	15·63	....	Notified under section 4 in August 1885.
		Total ..	554,374	866·21	10,000	13,760	550,614	860·33		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Trichinopoly.	Musiri taluk	Sengattupatti	..	..	2,000	..	2,000	..	No. 189, *Fort St. George Gazette*, dated 5th February 1884.	
		Melur	..	..	2,000	..	2,000	..		
		Manalodai	..	..	3,000	..	3,000	..		
	Perambalúr taluk	Salamatti	..	..	5,000	..	5,000	..		
	Kulitalai do.	Viramalai hill	..	..	2,000	..	2,000	..	No. 269, *Fort St. George Gazette*, dated 25th September 1885.	Notified under section 4.
		Poiyapatti do.	..	..	720	..	720	..		
		No. I Shemmalai	..	..	500	..	500	..		
	Do. do.	No. II do.	..	..	500	..	500	..		
		Pakkirikaradu	..	..	300	..	300	..		
		Puttantam Range comprising Kuramalai, Pulamalai and Nadumalai	..	..	500	..	500	..	No. 269, *Fort St. George Gazette*, dated 25th September 1885.	
		Surpam range	..	..	700	..	700	..		
	Trichinopoly do.	Pettuvaitalai	..	..	137	..	137	..		
		Tuvagudi	..	..	1,438	..	1,438	..		Transferred from 59-B.
	Kulitalai do.	Maradur	..	..	180	..	180	..	No. 110, *Fort St. George Gazette*, dated 31st March 1886.	
		Mayanur	..	..	50	..	50	..		
		Total	..	..	19,025	..	19,025	29·73		
Tanjore	Northern Range, Tiruturaipúndi taluk.	Kodiyakadu (Point Calimere)	..	..	4,355	..	4,355	6·80	Board's Procs., No. 3052 / Forest 607, dated 6th November 1885.	Transferred from 59-B.
Coimbatore (North).	Erode taluk	Udayárpálaiyam	506	..	..	..	506	..		
		Pulankulam	296	..	..	..	296	..		
		Karumanjirai	98	..	..	..	98	..		
		Kunnatur	181	..	..	..	181	..		
		Vellaraivelli	57	..	..	..	57	..		
		Sinniyampalaiyam	327	..	..	..	327	..		
		Madatupalaiyam	131	..	..	..	131	..		
		Karukampalaiyam	249	..	..	..	249	..		
		Tingalur	336	..	..	..	336	..		
		Papampalaiyam	183	..	..	..	183	..		
		Palanayakampalaiyam	296	..	..	..	296	..		
		Nichampalaiyam	1,024	..	..	..	1,024	..		
		Pandiyanpalaiyam	644	..	..	..	644	..		
		Singanallur	594	..	..	..	594	..		
		Pettampalaiyam	291	..	..	..	291	..		
		Kanjikovil	1,344	..	..	..	1,344	..		
		Avalpunturai	93	..	..	..	93	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Coimbatore (North)—*cont.*	Erode taluk—*cont.*	Tuyampunturai	123	..	..	..	123	..		
		Tenmugamnellodu	47	..	..	..	47	..		
		Pungampádai	60	..	..	..	60	..		
		Ingur	461	..	..	..	461	..		
		Perundurai	620	..	..	..	620	..		
		Palakarai	48	..	..	..	48	..		
		Nallampatti	475	..	..	..	475	..		
		Sullipalaiyam	227	..	..	..	227	..		
		Ponmudi	131	..	..	..	131	..		
		Karandipalaiyam	134	..	..	..	134	..		
		Mettupudur	215	..	..	..	215	..		
		Chinnavirasangili	550	..	..	..	550	..		
		Periyavirasangili	357	..	..	..	357	..		
		Mungilpalaiyam	222	..	..	..	222	..		
		Kambaliyampalaiyam ..	98	..	..	..	98	..		
		Varapalaiyam	205	..	..	..	205	..		
		Kongampalaiyam	177	..	..	..	177	..		
		Nadupattai	214	..	..	..	214	..		
		Pudurpallapalaiyam ..	230	..	..	..	230	..		
		Sundakaipalaiyam	280	..	..	..	280	..		
		Chinnagavundanvalasa ..	79	..	..	..	79	..		
		Vittalampatti	365	..	..	..	365	..		
		Veliyampatti	136	..	..	..	136	..		
		Virumandapalaiyam ..	904	..	..	..	904	..		
		Muttampalaiyam	376	..	..	..	376	..		
		Sengapalli	535	..	..	..	535	..		
		Tenmagam Kangayampalaiyam.	117	..	..	..	117	..		
		Reddiyapalaiyam	107	..	..	..	107	..		
		Uttukuli	170	..	..	..	170	..		
		Vadugapalaiyam	45	..	..	..	45	..		
		Rakkiyapalaiyam	30	..	..	..	30	..		
		Kavandampalaiyam ..	95	..	..	..	95	..		
		Morattupalaiyam	272	..	..	..	272	..		
		Sirkar Periyapalaiyam ..	45	..	..	..	45	..		
		Sirkar Kattangani	174	..	..	..	174	..		
		Ichipalaiyam	199	..	..	..	199	..		
		Sirukalanji	491	..	..	..	491	..		
		Dalavaipalaiyam	710	..	..	..	710	..		
		Vayipadi	750	..	..	..	750	..		
		Kuttampalaiyam	63	..	..	..	63	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Coimbatore (North)—*contd.*	Erode taluk—*continued* ..	Punjai Palátoluvu	763	..	..	..	763	..		
		Nanjai do.	37	..	..	..	37	..		
		Kodumanal	77	..	..	..	77	..		
		Orattapalaiyam	115	..	..	..	115	..		
		Pudupalaiyam	510	..	..	..	510	..		
		Ellaigrámam	255	..	..	..	255	..		
		Attavanaipidari	58	..	..	..	58	..		
		Mukasipidári	205	..	..	..	205	..		
		Srunamalai	2,147	..	..	..	2,147	..		
		Murungaitoluvu	80	..	..	..	80	..		
		Arachalúr	4,163	..	..	..	4,163	..		
		Kongadayampálaiyam ..	137	..	..	..	137	..		
		Kollankovil	725	..	..	..	725	..		
		Kontalam	208	..	..	..	208	..		
		Sivagiri	345	..	..	..	345	..		
		Villakatti	559	..	..	..	559	..		
		Kagam	161	..	..	..	161	..		
		Kolaivilaku	195	..	..	..	195	..		
	Karúr taluk	Karavalli	..	..	65	..	65	..		
		Munnúr	..	..	121	..	121	..		
		Kuppam	..	..	232	..	232	..	Board's Procs. No. 2203 / Forest 420, dated 28th July 1885.	
		Punjaipugalúr	..	..	71	..	71	..		
		Nerúr	..	..	131	..	131	..		
		Pavitram	..	..	144	..	144	..		
		Punjaikalakurchi	..	..	81	..	81	..		
		Gúdalúr	..	..	96	..	96	..		
		Modukur	..	..	130	..	130	..		
		Inanganur	..	..	174	..	174	..		
		Séndamangalam	..	..	2,054	..	2,054	..		
		Kakkavadi Pichampatti ..	..	..	187	..	187	..		
		Talipatti	..	..	141	..	141	..		
		Eastern slopes of the Nílgiris	..	..	* 48,000	..	48,000	* 75	*Fort St. George Gazette* dated 18th July 1884.	Notified under section 4.
	Satyamangalam	Block No. I	..	..	..	..	..	..		
		„ „ II	..	..	* 224,000	..	224,400	* 350	Board's Procs., No. 2535 / Forest 80, dated 2nd September 1885.	
	Kollegál	„ „ I	..	..	* 2,49,600	..	2,49,600	* 390		
		„ „ II								
		„ „ III								
	Bhavání	„ „ I	..	..	1,40,800	..	1,40,800	* 220		
		Total ..	27,927	43·63	666,027	..	693,954	1084 ·30		

* Approximate.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Coimbatore (South.)	Coimbatore taluk (Mettupálaiyam).	Gopanari forest or block V. Kempapalaiyam .. .. Tekampatti .. .. .. Kondiyur or block VI .. Nellitorai and Sundapatti or block VII.	38,200	..	..	38,200	..	..	..	Transferred to 59-A.
		Odantorai block VIII ..	5,880	..	..	5,880	..	..		
		Modur and Pettikottai block IX.	3,600	..	..	3,600	..	..		
	Palladam	Alatur	237	..	..	..	237	..		
		Ammapalaiyam	119	..	..	..	119	..		
		Arasur	94	..	..	..	94	..		
		Asanallipalaiyam	160	..	..	..	160	..		
		Avanashi	55	..	..	..	55	..		
		Ichipatti	639	..	..	..	639	..		
		Iduvai	125	..	..	..	125	..		
		Ittivirampalaiyam	581	..	..	..	581	..		
		Kadirampalaiyam	188	..	..	..	188	..		
		Kaduvettipalaiyam	80	..	..	..	80	..		
		Kalipalaiyam	123	..	..	..	123	..		
		Kandampalaiyam	92	..	..	..	92	..		
		Kaniyampundi	156	..	..	..	156	..		
		Kaniyur	820	..	..	..	820	..		
		Karadibari	50	..	..	..	50	..		
		Karaipudur	92	..	..	..	92	..		
		Karavalur	522	..	..	..	522	..		
		Korambapalaiyam	299	..	..	..	299	..		
		Korumatampatti	306	..	..	..	306	..		
		Kodangipalaiyam	121	..	..	..	121	..		
		Kuppandupalaiyam	69	..	..	..	69	..		
		Kuttagam	582	..	..	..	582	..		
		Mangarasuvalayapalaiyam ..	271	..	..	..	271	..		
		Moparipalaiyam	163	..	..	..	163	..		
		Naramapuram	556	..	..	..	556	..		
		Narayampalli	51	..	..	..	51	..		
		Nilambúr	113	..	..	..	113	..		
		Papankulam	103	..	..	..	103	..		
		Paruvai	76	..	..	..	76	..		
		Pattampalaiyam	126	..	..	..	126	..		
		Pammanallur..	159	..	..	..	159	..		
		Perungaravarpalaiyam ..	53	..	..	..	53	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Coimbatore (South)—*contd.*	Palladam—*continued*	Pudupalaiyam	793	..	..	..	793	..		
		Pulippar	72	..	..	..	72	..		
		Puluvapatti	111	..	..	..	111	..		
		Pumalur	291	..	..	..	291	..		
		Rakkiyapalaiyam	278	..	..	..	278	..		
		Samalapuram	52	..	..	..	52	..		
		Settipalaiyam	159	..	..	..	159	..		
		Sennaripalaiyam	75	..	..	..	75	..		
		Sokkanur	132	..	..	..	132	..		
		Sukkampalaiyam	479	..	..	..	479	..		
		Tandagarampalaiyam	83	..	..	..	83	..		
		Tattanur	290	..	..	..	290	..		
		Tekkalur	389	..	..	..	389	..		
		Toravalur	82	..	..	..	82	..		
		Tulukamutur	60	..	..	..	60	..		
		Uppilipalaiyam	99	..	..	..	99	..		
		Vadugapalaiyam	57	..	..	..	57	..		
		Do.	293	..	..	..	293	..		
		Vallipuram	52	..	..	..	52	..		
		Valampalaiyam	81	..	..	..	81	..		
		Do.	75	..	..	..	75	..		
		Virapundi	175	..	..	..	175	..		
		Total	59,039	92·24	..	47,680	11,359	17·75		
		Tamberán Kanál	250	0·39	..	* 250				
		Melagudalur	1,280	2	..	* 1,280	..	..	....	Transferred to 59-A
		Muchakal	2,560	4	..	* 2,560				
		Kutinachiyar	640	1	..	..	640	1		
		Pandaratorai	300	·46	..	..	300	·46		
		High waving mountain slopes.	960	1·50	..	..	960	1·50		
Madura	No. I. Periyakulam	Kombai	6,400	10	..	..	6,400	10		
		Murugamalai (Fuel and Fodder reserves.)	3,226	5·04	..	..	3,226	5·04		
		No. I Vellaikaradu	..	..	965·24	..	965·24			
		,, VI Sonaikaradu	..	..	181·72	..	181·72			
		,, III Mottaikaradu	..	..	192·34	..	192·34	3·81	Notification in *Fort St. George Gazette*, dated 1st Aug. 1885.	Transferred from 59-D.
		,, IV Kuttaikaradu	..	..	125	..	125			
		,, V Nagarmalaikaradu.	..	..	118	..	118			

* Transferred to 59-A.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Madura—*contd.*	No. I. Periyakulam—*continued.*	No. VI Perumalkovil karadu.	..	..	573	..	573	..	....	Transferred from 59-D.
		,, VII Sanniyasikovil karadu.	..	..	283·20	..	283·20	..		
		Parappar	42	·06	..	* 42	..	..		
		Velamkombai	1,600	2·50	..	* 1,600	..	..		
		Talaiar karadu			..	..				
		Varattarkánal			..	..				
		Iruttar kánal			..	..				
		Kadamaravu			..	..				
		Nochiyar kadu	1,280	2	..	..	1,056	1·65		
		Talaiar Andarkovil kadu ..			..	..				
		Petaren kánal			..	* 80				
		Ariyamutu kanal			..	* 64				
		Kumangovaimalai kadu ..			..	* 80				
		The southern slopes of the Palni hills.								
		The eastern slopes of the Palni hills.	25,600	40	..	..	25,600	40		
		The northern slopes of the Palni hills.								
	No. II. Kodaikánal ..	All the lands on the lower Palni hills lying outside the limits of certain cultural waste selected and set apart.	32,000	50	..	..	32,000	50		
		Manjakarai kadu								
		Vanjan kanál								
		Alayadi do.								
		Chekodi do.								
		Kadagatadi kadu								
		Koviladi kanál								
		Kumalara kadu	1,600	2·50	..	..	1,600	2·50		
		Talakodai do.								
		Tinikuttu do.								
		Ponvettu kanál								
		Periyasalai kadu								
		Poliyapattimalai								
		Elamalai								
		Nadumbarai kadu								

* Transferred to 59-A.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Madura.—*contd.*	No. II.—Kodaikánal—*continued.*	Waggatumalai (Fuel and Fodder reserves.)	4,200	6·56	..	..	4,200	6·56		
		Kachakatti (Fuel and Fodder reserves).	1,694	2·64	..	..	1,694	2·64		
		Tirupurankundram hill ..	960	1·50	..	..	960	1·50		
		Elephant rock	640	1·	..	..	640	1·		
		Ammanmalai	1,600	2·50	..	..	1,600	2·50		
		Muttupattimalai								
		Vandiyur karadu								
		Nalladévanpatti karadu ..	..	..	1,920	..	1,920	3		
		Total ..	86,832	135·67	4358·50	5,956	85234·50	133·18		
		Ghât Forests.								
Tinnevelly	Nángunéri	Forest No. I	..	..	25,999	..	25,999	..	....	Reserved under section 4.
	Ambásamudram	,, ,, II	..	..	61,856	..	61,856	..		Transferred from 59-D.
	Tenkási	,, ,, III	..	..	14,032	..	14,032	..		
	Sankaranainárkoil ..	,, ,, IV	..	..	30,713	..	30,713	..	....	Reserved under section 4.
	Srívilliputur	,, ,, V	..	..	40,006	..	40,006	..		
	Ambásamudram	Mulimalai	..	..	457	..	457	..		
		Kalianiammankovilparai ..	..	..	309	..	309	..		
		Koviladiparai	..	..	125	..	125	..		
		Salupparpadai	..	..	71	..	71	..		
		Kolandamamalai	..	..	1,540	..	1,540	..		
	Tenkási	Okkanindranpadai	..	..	85	..	85	..		
		Kavalkuttiparamba	..	..	375	..	375	..		
		Kattamalai	..	..	860	..	860	..		
		Nalankurchi	..	..	212	..	212	..		
	Sankaranainárkoil ..	Chunnambuparamba ..	..	..	286	..	286	..		
		Saiyamalai	..	..	195	..	195	..		
		Vedamalai	..	..	99	..	99	..		
	Srívilliputur	Kottankulam	..	..	1,200	570	630	..		
		Sappaniparamba	..	..	376	..	376	..		
		Pulpadaiparamba	..	..	51	..	51	..	....	Notified under section 26.
		Valaikulamparamba	..	..	1,120	..	1,120	..		Transferred from 59-D.
		Onnipattimalai	..	..	530	..	530	..		
		Martandramparai	..	..	135	..	135	..		
	Tinnevelly	Sivalaparaiparamba	..	..	263	..	263	..		
		Talaiyuttu	..	..	891	..	891	..		
	Tenkási	Kudiraimalai	..	..	13418·41	..	13418·41	..		
		Kottamadaki kadu	..	..	1279·23	..	1279·23	..		
		Kongrayakurchi	..	..	78	·36	77·64	..		
		Panamparai	..	..	117	..	117	..		
		Kaliyarkadu	..	..	187	28·93	158·07	..		
		Vallanad hills	..	..	4,667	..	4,667	..		
	Otapidáram	Milavittan	..	..	674	..	674	..		
		Vaipar reserve	..	..	813	..	813	..		
		Virusampatti	..	..	294	..	294	..		
		Total ..	..	..	203313·64	599·29	202714·35	316·74		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Malabar (Wynaad and Pálghat).	Wynaad	Palapattur	861	..	..	..	861	..	....	Excluded portions of the Chedlet teak forest at the Forest Settlement of 1884-85.
		Vengur	2,013	..	..	..	2,013	..	....	The Chedlet forest was declared as reserved land in 1884-85—*vide* District Gazette, dated 5th July 1884.
		Chedlet	572	..	..	..	572	..		
		Karapur	1,221	..	..	..	1,221	..		
		Kallur	3,757	..	..	..	3,757	..		
		Excluded portions of Trans-Beni forest at the Forest Settlement of 1884-85.	4,300	..	..	..	4,300	..	....	The Trans'-Beni forest and Chattamkulamgara Paramba were also declared as reserved land in 1884-85—*vide* District Gazette, dated 5th July 1884.
	Pálghat	Chattamkulamgara paramba.	30	..	..	..	30	..		
	Wynaad	Kudrakot	..	..	26,134	..	26,134	..	....	Notified under section 4 in October 1884.
		Padri	..	..	22,400	..	22,400	..		
		Cardamom forest	..	..	13,440	..	* 13,440	..		
		Kanot	..	..	25,600	..	25,600	..	....	Notified under section 4 in May 1885.
	Pálghat	Chenatnair forest	..	..	16,369	..	16,369	..	....	Notified under section 4 in November 1883.
		Tiruvazham kunnu *alias* Panakadam.	..	..	1,000	..	1,000	..	....	Transferred from 59-B.
		Pallam	..	..	100	..	100	..	....	Transferred from 59-B.
		Total ..	12,754	19·92	105,043	..	117,794	184·06		
Malabar (Nilambúr).	....	....	..	..	..	..	..	..		
South Canara.	....	Ullal plantation. { Casuarina ..	..	..	16·50	..	16·50	·08	....	Notified under section 4 in December 1885.
		Ullal plantation. { Honne ..	..	..	39	..	39			
	Uppinangadi	I. The Siradi-sisla reserve.	..	..	19,200	..	19,200	30	G.O., No. 118, dated 13th Feb. 1886.	Notified under section 4 in February 1886.
		II. The Dharmastla-Mundaji reserve.	..	..	9,600	..	9,600	15		
		III. The Charmadi-Kanapadi reserve.	..	..	12,800	..	12,800	20	....	
		IV. The Bhagimale reserve.	..	..	6,400	..	6,400	10	....	
		Total ..	..	..	48055·50	..	48055·50	75·08		
		Grand Total ..	826,252	1291·01	1,561,326	85,700	2,241,878	3502·93		

* Apparently includes Chapparam (112 acres) and Panniyatta (70 acres).

ANNUAL FORM No. 59 D.

Forest Department, Madras, Southern Circle.

Area of other Forests, 1885-86.

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or Transferred to other heads.	Area on 31st March 1886.		Number and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
Chingleput.	....	Vandalúr	3,207	5·01	..	3,207	..	..	..	....
North Arcot.	....	....	..	..	..	..	..	..	..	....
South Arcot.	Tiruvannámalai Taluk.	Ténmalai	16,960	..	..	..	16,960	..	..	....
		Perungolatúr Swámi Malai.	6,080	..	..	6,080	..	..	..	Transferred to 59-C.
		Tandrampet	20	..	..	..	20	..	..	....
		Kadambai	280	..	..	..	280	..	..	....
		Tippakádu	400	..	..	400	..	..	..	Transferred to 59-C
		Kavatimalai	6,400	..	..	6,400	..	..	..	
		Kannamadi	25,600	..	..	..	25,600	..	..	....
		Anandavadi	6,400	..	..	6,400	..	..	..	Transferred to 59-C.
		Nattampatti	2,560	..	..	..	2,560	..	..	Transferred to 59-C.
		Valasamalai	7,040	..	..	7,040	..	..	..	
		Ravandavadi	12,800	..	..	..	12,800	..	..	
		Porasapet	15,360	..	..	..	15,360	..	..	
		Sirupákam	11,520	..	..	..	11,520	..	..	
		Erayúrmalai	5,120	..	..	..	5,120	..	..	
		Nukambadimarkulum.	32,000	..	..	..	32,000	..	..	
		Rásimalai	19,200	..	..	..	19,200	..	..	
		Veppúr	25,600	..	..	..	25,600	..	..	
		Bimárapatti Attipádi.	19,200	..	..	..	19,200	..	..	
		Kaludaikattimalai ..	7,040	..	..	..	7,040	..	..	
		Sannamalai	10,880	..	..	..	10,880	..	..	
		Trichampet including Attipákam	29,080	..	..	..	29,080	..	..	
		Kolamanjanúrkulam.	3,200	..	..	..	3,200	..	..	
		Pudupálaiyam ..	6,400	..	..	..	6,400	..	..	
		Tiruvannámalai timber yard.	4	..	..	..	4	..	..	
		Javádi slopes from Bandirivu to Madigari in Salem district.	25,600	..	..	..	25,600	..	..	
		Damarakádu in North Arcot district.	7,880	..	..	..	7,880	..	..	
		Vailamúr Timmipendrug.	10,240	..	..	..	10,240	..	..	
		Kotenmalai near Padipallam block.	392	..	..	..	392	..	..	
	Tindivanam Taluk.	Vellimódu	2,560	..	..	..	2,560	..	..	
		Mínamúrmalai ..	3,840	..	..	..	3,840	..	..	
		Voleti	1,280	..	..	..	1,280	..	..	
		Pattuvoy	1,280	..	..	..	1,280	..	..	
		Kílsévúr	1,280	..	..	..	1,280	..	..	
		Nadukuppam to Bramhadésam.	3,840	..	..	..	3,840	..	..	
		Parikalpet	70	..	..	..	70	..	..	
	Villupuram Taluk.	Odaijanattam and Kadayam.	6,400	..	..	..	6,400	..	..	
		Pulanjaimalai ..	450	..	..	..	450	..	..	
		Ariyalúr Forest ..	500	..	..	..	500	..	..	
		Pallipudupet	180	..	..	..	180	..	..	
		Punjamadévi	50	..	..	..	50	..	..	
		Púntóttam	50	..	..	..	50	..	..	
		Sáttipattu	50	..	..	..	50	..	..	
		Periyapuram	50	..	..	..	50	..	..	
	Cuddalore Taluk.	Rámápuram and Valicheripálaiyam.	9	..	..	..	9	..	..	
		Selambanádanpetten.	640	..	..	..	640	..	..	
		Badrakóttai	1,281	..	..	..	1,281	..	..	
		Velánguppam ..	2,560	..	..	..	2,560	..	..	
		Kanjiruppu	1,000	..	..	..	1,000	..	..	
		Karunguli	600	..	..	..	600	..	..	
		Vengádampéttai, 15th milestone.	250	..	..	..	250	..	..	

Area of other Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
South Arcot—*cont.*	Chidambaram Taluk.	Pinnalúr, Wálajápet tank block.	1,600	..	..	..	1,600	..	..	
	Vriddháchallam Taluk.	Kammápuram ..	1,400	..	..	..	1,400	..	..	
		Kodanúr, South of 45th milestone.	1,000	..	..	..	1,000	..	..	
		Wuyakondrávi and Kóttayam.	2,000	..	..	..	2,000	..	..	
		Block near 25th milestone.	150	..	..	..	150	..	..	
		Púdúr	1,920	..	..	..	1,920	..	..	
		Kolatúr	1,280	..	..	..	1,280	..	..	
		Periyanásalúr ..	1,280	..	..	..	1,280	..	..	
		Virinjipuram and Kandachipuram.	2,560	..	..	..	2,560	..	..	
		Kuttadi	640	..	..	..	640	..	..	
		Tirumachúr to Gadilam river.	4,920	..	..	..	4,920	..	..	
	Tirukoilúr Taluk.	Chikkadu	4,920	..	..	..	4,920	..	..	
		Panjúr	50	..	..	..	50	..	..	
		Kolatúr	70	..	..	..	70	..	..	
		Mámbákam	40	..	..	..	40	..	..	
		Seizampet	50	..	..	..	50	..	..	
		Muttalúr	50	..	..	..	50	..	..	
		Kodiyúr	50	..	..	..	50	..	..	
	Kallakurchi Taluk.	Ponparappi forest ..	9,600	..	..	..	9,600	..	..	
		Kadambúr	3,100	..	..	..	3,100	..	..	
		Lálápet forest including chittal.	14,500	..	..	..	14,500	..	..	
		Tugarai Kachirájapálaiyam.	1,500	..	..	..	1,500	..	..	
		Parigam	2,000	..	..	..	2,000	..	..	
		Kanai	3,000	..	..	..	3,000	..	..	
		Poigunnammalai ..	1,000	..	..	..	1,000	..	..	
		Palavalam	2,000	..	..	..	2,000	..	..	
		Rangappanúr	1,000	..	..	..	1,000	..	..	
		Total ..	403,156	629·93	..	26,320	376,836	588·81		
Salem ..	....	....	..	..	..	..	..	..		
Trichinopoly.	....	....	..	..	..	..	..	..		
Tanjore	Southern Range.	Talanair	1,200	..	..	..	1,200	..	..	
		Kariyapatnam ..	188	..	..	..	188	..	..	
		Manakádu	170	..	..	..	170	..	..	
		Valligadangu ..	40	..	..	..	40	..	..	
		Vanduvánchéri ..	150	..	..	..	150	..	..	
		Mudupet	300	..	..	..	300	..	..	
		Kovilpattu	137	..	..	..	137	..	..	
		Vanavanmahádévi ..	380	..	..	..	380	..	..	
		Vallupallam							..	
		Pushpavanam ..	500	..	..	..	500	..	..	
		Periyakudagai ..	366	..	..	..	366	..	..	
		Total ..	3,431	5·36	..	..	3,431	5·36		
Coimbatore (North).	....	....	..	..	..	..	..	..		
Coimbatore (South)	....	....	..	..	..	..	..	..		
Madura.	No. I or Periyakulam Range.	Detached hills and Karadus in the Cumbum valley.	3,225	5·03	..	2,438·50	786·50	1·22	..	Transferred to 59-C.
		Government portion of the Agamalais.	9,280	14·50	..	..	9,280	14·50	..	
		Andipati hills ..	12,800	20	..	..	12,800	20	..	
	No. II or Kodaikánal Range.	Upper Palni plateau ..	32,000	50	..	..	32,000	50	..	

Area of other Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
Madura—*cont.*	No. III or Dindigul Range.	Portion of the slopes of the Sirumalais.	640	1	..	..	640	1	..	
		Detached hills near Aiyalúr.	12,800	20	..	..	12,800	20	..	
		Detached hills near Kanavoipatti.	3,840	6	..	..	3,840	6	..	
	No. IV or Mélúr Range.	Karandamalais ..	2,6240	41	..	..	26,240	41	..	
		Nedumalais	3,840	6	..	..	3,840	6	..	
		Some of the detached hills near Nattam ..	2,560	4	..	..	2,560	4	..	
	No. V or Madura Range.	Perumalai	5,120	8	..	..	5,120	8	..	
		A portion of Munjamalais.	4,800	7·50	..	..	4,800	7·50	..	
		Total ..	117,145	183·03	..	2,438·50	114,707	179·22		
Tinnevelly.	Tenkarai ..	Paramankurchi ..	1,133	1·77	..	..	1,133	1·77	..	
		Arasúr	6,831	10·67	..	..	6,831	10·67	..	
		Kottam	2,860	4·46	..	..	2,860	4·46	..	
	Northern Range.	Tenkási Forest No. III	14,032	..	..	14,032	..	..		
		Sankaranainárkoil Forest No. IV.	30,713	..	..	30,713	..	..		
		Srívilliputur, Forest No. V.	40,006	..	..	40,006	..	..	..	
	Southern Range.	Nángunéri, Forest No. I.	25,715	..	..	25,715	..	..	..	
		Ambásamudram, Forest No. II.	61,856	..	..	61,856	..	..	..	
	Ambásamudram.	Kolandamámalai ..	1,120	..	..	1,120	..	..	..	
		Mulimalai	457	..	..	457	..	..	..	
		Káliyammankovilpárai	309	..	..	309	..	..	..	
		Koviladipárai ..	125	..	..	125	..	..	..	
		Saluppárpadai ..	71	..	..	71	..	..	..	
		Okaninranpádai ..	85	..	..	85	..	..	..	
	Tenkási ..	Kávalkuttiparamba ..	375	..	..	375	..	..	..	
		Kottamalai	860	..	..	860	..	..	..	
		Nalankurchi	212	..	..	212	..	..	..	
	Sankaranainárkoil.	Chunnámbuparamba.	286	..	..	286	..	..	..	Transferred to 59-C.
		Saiyamalai	195	..	..	195	..	..	..	
		Védamalai	99	..	..	99	..	..	..	
	Srívilliputur.	Kottankulam	1,200	..	..	1,200	..	..	..	
		Sappaniparamba ..	376	..	..	376	..	..	..	
		Pulpádaiparamba ..	50	..	..	50	..	..	..	
		Valaikulamparamba..	1,120	..	..	1,120	..	..	..	
		Onnipattimalai ..	530	..	..	530	..	..	..	
		Martandrampárai ..	135	..	..	135	..	..	..	
	Tinnevelly..	Sivalaperi	263	..	..	263	..	..	..	
		Talaiyuttu	891	..	..	891	..	..	..	
	Tenkarai ..	Kudiraimalai.. ..	12,848	..	..	12,848	..	..	..	
		Kottamadakikádu ..	1,279	..	..	1,279	..	..	..	
		Kongráyakurchi ..	78	..	..	78	..	..	..	
		Panampárai	117	..	..	117	..	..	..	
		Kaliyarkádu	187	..	..	187	..	..	..	
	Otapidáram.	Vallanád hills ..	4,483	..	..	4,483	..	..	..	
		Milavittam	674	..	..	674	..	..	..	
		Vaippár reserve ..	815	..	..	813	..	..	..	
		Virusampatti.. ..	294	..	..	294	..	..	..	
		Total ..	212,678	332·30	..	201,854	10,824	16·91		
Malabar (Wynaad and Pálghat).	Wynaad ..	Manatána	..	..	214,400	..	214,400	..	..	
	Pálghat ..	Forestland near Dóni.	..	..	150	..	150	..	..	
		Total ..	..	..	214,550	..	214,550	335·23		
Malabar (Nilambúr).	.....	....	..	..	..	..	..	..	..	
South Canara.	.. ..	Tannír Bhávi ..	..	..	21	..	21	0·03	..	
		Parapár	..	..	109	..	109	0·17	..	
		Total ..	..	..	130	..	130	0·20		
		Grand Total ..	739,617	1,155·65	214,680	233,819	720,478	1,125·75		

Annual Form No. 60.

Forest Department, Madras, Southern Circle.

Area of Plantations, 1885-86.

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
		Regular Plantations.							
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	Chingleput ..	Maiyúr, Pilapúr and Mámandúr	400	19,781	..	703	400	20,484	
		Nazarethpet	71·54	1,592	..	75	71·54	1,667	
		Wálajábád	14·55	1,457	..	246	14·55	1,703	
		Vembákam	8	3,605	..	344	8	3,950	
		Hanumantaputéri	12				12		
		Melamaiyúr	24				24		
		Kattivák	14·43	234	—14·43	—234	..	..	Abandoned.
		Covelong	2	249	..	25	2	274	
		Total ..	546·52	26,919	—14·43	1,393 —234	532·09	28,078	
North Arcot ..	Vellore	Vellore taluk—							
		Ambúr	5	394	..	121	5	515	
		Pólúr taluk—							
		Ammerdi	25	4,210	..	101	25	4,311	
		Chandragiri taluk—							
		Gázulamandiyam	250	3,225	..	104	250	3,329	
	Palmanér ..	Palmanér taluk—							
		Palmanér	2	1,338	..	49	2	1,387	
		Nágamangalam	31	2,518	..	48	31	2,566	
		Piduguváripalle	20	2,981	..	48	20	3,029	
		Venkatagirikóta	4	2,238	..	48	4	2,286	
		Baireddipalle	4	5,692	..	96	4	5,788	
		Gudiyátam taluk—							
		Tiruvallam	435	28,359	..	2,283	435	30,642	
		Virinjipuram	260	19,609	..	1,112	260	20,721	
		Chainúr	129	5,743	..	135	129	5,878	
		Ammundi	160	4,246	..	731	160	4,977	
		Tándráyangunta	2	639	..	..	2	639	
	Head Quarter Range.	Vannivédu	30	2,006	..	97	30	2,103	
		Wálajápet taluk—							
		Arkónam Sub-Magistrate's compound	5	130	..	..	5	130	
		Arkónam plantation	37	5,065	..	50	37	5,115	
		Hd. Asst. Collector's office compound.	4	151	..	..	4	151	
		Tengal	..	..	250	84	250	84	
		Arcot taluk—							
		Kilminnal	150	8,823	..	1,707	150	10,530	
		Total ..	1,553	97,367	250	6,814	1,803	1,04,181	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
South Arcot ..	No. I, Tiruvannámalai.	Chengam	8	1,257	..	..	8	1,257	
	No. III, Tindivanam.	Agaram	102	7,218	..	679	102	7,897	
		Achikádú	107	2,112	..	64	107	2,176	
	No. IV, Cuddalore.	Tanlankádu	150	7,987	..	1,225	150	9,212	
		Fort St. David	37	4,011	..	546	37	4,557	
		Shónangkuppam	120	8,505	..	885	120	9,390	
		Dónitorai and other salt topes around ..	88	1,933	..	774	88	2,707	
		Nochikádu	314	8,277	22·96	980	336·96	9,257	
		Periyakuppam	256	3,592	78·52	1,736	334·52	5,329	
		Add amount of land rent paid for the above plantation to the Municipality.	..	489	..	..	..	489	
	Chidambaram.	Killai plantation	60	1,658	11	634	71	2,292	
		Coleroon mouth plantation	48	1,337	1·14	171	49·14	1,508	
		Periyapet plantation	35	58	40·46	205	75·46	263	
		Mallatár bed plantation	27	30,061	..	40	27	30,101	
		Vélúr	..	2,563	..	..	..	2,563	
		Add pay of the manager and his gumastah in charge of Tirukoilúr plantation.	..	916	..	..	..	916	
		Total ..	1,352	81,975	154·08	7,939	1,506·08	89,914	
Salem	....	....	..	..	..	..	..	..	
Trichinopoly ..	Kulitalai ..	Elamanúr	117·1	11,995	..	295	117·1	12,290	
		Pettavaitalai	137	12	..	137	137	149	
		Kulitalai	77·18	9,851	..	336	77·18	10,187	
		Manatattai	44·86	4,021	..	165	44·86	4,186	
		Lálápet	213	5,779	..	216	213	5,995	
		Ambásamudram	319	409	..	55	319	464	
		Mahádánapuram	191	263	..	33	191	296	
		Sittalavoi	160·32	7,299	..	173	160·32	7,472	
		Sekkánam	122	2,964	..	44	122	3,008	
		Kattalai	74·35	7,368	..	340	74·35	7,708	
		Pudúr	141·3	706	..	55	141·3	761	
		Máyanúr	..	..	50	43	50	43	
		Punjanúr	480	486	..	47	480	533	
	Udayárpálaiyam.	Kólamánikam	242	5,790	..	286	242	6,076	
		Aramanaikurchi	91	2,415	..	37	91	2,452	
		Káraipákam	107	2,587	..	104	107	2,691	
		Tiruvenjanúr	185	2,181	..	73	185	2,254	
		Varappakurchi	192	1,696	..	108	192	1,804	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Trichinopoly—*continued.*	Udáyarpálaiyam—*continued.*	Sattambádi	105	2,323	..	..	105	2,323	
		Sripurandan	486	3,485	..	141	486	2,626	
		Valakurchi	130	376	..	75	130	451	
		Annagarampet	92	1,202	..	196	92	1,398	
		Total	3,707·11	73,208	50	2,959	3,757·11	76,167	
Tanjore	....	Tranquebar, No. I	52	5,444	..	16	52	..	
		Do. ,, II	92		..	404	92	..	
		Vettangudi	453		..	2,194	453	..	
		Neidavásal	51		..	47	51	..	
		Kodiyampálaiyam	60		..	52	60	..	
		Kodambádi	26		..	4	26	..	
		Total	734	5,444	..	2,717	734	8,161	
Coimbatore (North).	Satyamangalam.	Talamalai	80	18,563	— 80	— 18,563	..	..	Abandoned.
	Kollegál	Bailúr	97	29,447	..	631	97	30,078	Sandalwood plantation.
		Total	177	48,010	— 80	631 — 18,563	97	30,078	
Coimbatore (South).	Tánakadava	No. I Plantation	8·5	4,402	..	..	8·5	4,402	These are plantations in No reserve on the Anaimalais.
		,, II do.	8				8		
		,, III do.	3				3		
		Total	19·5	4,402	..	..	19·5	4,402	
Madura	....	Vannátipárai teak plantation	4	1,385	..	6	4	1,391	
		Kodaikánal Eucalyptus plantation	8	3,272	..	32	8	3,342	
		Do. Acacia plantation	5·50		..	38	5·50		
		Kodaikánal Parappár plantation	8	327	3·50	168	11·50	495	
		Velámkombai teak plantation	4·14	976	..	..	4·14	976	
		Púmbárai plantation	3	512	..	..	3	512	
		Kodaikánal scattered plantation	3	984	..	34	3	1,018	
		Total	35·64	7,456	3·50	278	39·14	7,734	
Tinnevelly	Tenkarai	Kudiraimalai	537	738	— 537	— 738	..	..	Transferred to "cultural operations."
Malabar (Wynaad and Pálghat).	Wynaad Southern Division.	Kanót teak plantation	41·50	2,620	..	314	41·50	2,934	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Malabar (Nilambúr),	Nilambúr	Amarampálaiyam	408·77	..	..	..	408·77	..	Reserved under Act V of 1882
		Chatamborai	498·10	..	..	..	498·10	..	
		Nellikutta	120·23	..	..	..	120·23	..	
		Iravallikáva	131·56	..	+ 3·30	..	134·86	..	
		Aruvakád	113·63	..	— 2·19	..	111·44	..	
		Edakád	693·59	..	— 1·07	..	692·52	..	
		Ellenjóri	337·81	..	— 0·05	..	337·76	..	
		Rómalúr	21·33	..	..	..	21·33	..	
		Múlatmanna	70·76	..	+ 0·80	..	71·56	..	
		Panangóte	393·78	..	+ 100·00 * + 3·31	..	497·09	..	* New clearing for planting transferred from forest.
		Valuvasheri	584·	..	..	..	584·	..	
		Mangalasheri	10·74	..	..	..	10·74	..	
		Ambalakandi	1·04	..	— 0·03	..	1·01	..	
		Chittarikál	9·55	..	— 9·55	..	..	..	Both together only 8·35. This is wrongly entered a second time by Mr. Ferguson, late Deputy Conservator, and will be omitted in the next annual return.
		Puttalat	8·35	..	..	..	8·35	..	
		Porai Mangalasheri	10·74	..	— 10·74	..	..	..	
		Arimbrakuttamala	22·	..	— 0·25	..	21·75	..	
		Total ..	3,435·98	6,58,616	107·41 — 23·88	4,820† — 4,50,711	3,519·51	2,12,725	† As per verified actuals.
South Canara ..	Mangalore	Ullál casúarina	14½	421	2	234	16½	655·	
		Tannirbhávi	21	1,149	..	307	21	1,456	
		Ullál Honné	39	479	..	37	39	516	
	Kásaragód	Parapa teak	109	16,460	..	76	109	16,536	
		Total ..	183½	18,509	2	654	185½	19,163	
		Grand Total ..	12,322·30	10,25,264	566·99 — 655·31	28,519 — 4,70,246	12,233·98	5,83,537	
		Cultural Operations.							
Chingleput ..			..	..	..	..	..	..	
North Arcot ..			..	..	..	..	..	..	

Area of Plantations, 1885-86—*continued*.

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	RS.	ACS.	ACS.	RS.	
South Arcot ..	..	Rámápuram forest	70	..	— 70	..	..	..	Omitted Adjusted under VII (*f*).
		Forests in Tindivanam, Cuddalore and Villupuram.	555	32	— 555	..	..	32	
		Forests in Cuddalore, Vriddhachalam and Chidambaram.	530	197	— 530	..	..	197	
		Total ..	1,155	229	— 1,155	..	..	229	
Salem	..	.. ..	..	..	..	..	..	..	
Trichinopoly ..	Trichinopoly	Melúr	M. 6	54	..	..	M. 6	54	
		Peruvalai bank	,, 2	133	..	..	,, 2	133	
		Coleroon left bank trunk road to Alambádi.	,, 22	3,591	..	623	,, 22	4,214	
	Udayárpálaiyam.	Nandiyár project	,, 4	2,261	..	6	,, 4	2,267	
		Coleroon left bank Sembiyagudi to Vaippár	,, 21	7,547	..	..	,, 21	7,547	
		Pennéri main channel	,, 19	7,094	..	..	,, 19	7,094	
		Do. branch channel	,, 16	2,199	..	..	,, 16	2,199	
		Lower anicut line	,, 10	3,457	..	..	,, 10	3,457	
		Vadár Padugais	..	3	..	..	..	3	
		Total ..	M. 100	26,339	..	629	M. 100	26,968	
Tanjore ..	..	Nadár	18	..	..	..	18	..	
		Ichankottai	9	..	..	9	9	9	
		Kollanagarai	20	..	..	..	20	..	
		Karungulam Mélpadi	5	..	..	..	5	..	
		Marungulam	20	..	..	..	20	..	
		Nadukavéri	9	..	..	..	9	..	
		Natarájpuram							
		Káttuchéri	15	..	..	48	15	48	
		Kalliyappanallúr	18	..	..	48	18	48	
		Nadakondanallúr	25	..	..	48	25	48	
		Vettangudi	520	..	..	44	520	44	
		Nannilám	2	..	..	..	2	..	
		Odiyandevi	20	..	..	..	20	..	
		Védáraniyam (date garden)	1	..	20	42	21	42	
		Edangankóttai (Melúr)	7	..	..	..	7	..	
		Thirteen topes in Pudukóta taluk ..	135	..	..	..	135	..	
		Total ..	824	286	20	239	844	286 + 239 = 525	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Coimbatore (North).									
Coimbatore (South).									
Madura ..									
Tinnevelly ..	Tenkárai ..	Kudiraimalai			587		587		
Malabar (Wynaad and Pálghat).									
Malabar (Nilambúr).									
South Canara ..									
		Grand Total ..	1,979 M. 100	26,854	— 1,155 557	— 229 868	1,381 M. 100	27,493	

Annual Form No 61.

Forest Department, Madras, Southern Circle.

Annual list of topes.

District.	Range.	Number of topes.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Chingleput ..	Chingleput range	7	..	Casuarina, mango, margosa, iluppai and korkápuli	79·37	242	7,278	
North Arcot ..	Vellore	60	..	Palmyra, tamarind, mango	..	..	..	
	Palmanér	169	..	Palmyra, iluppai, tamarind, mango, cocoanut and date	..	..	..	
	Head-quarter range	127	..	Palmyra, date, mango, tamarind, iluppai ..	..	..	..	
	Arcot taluk	261	..	Palmyra, mango, iluppai, tamarind	..	..	..	
	Wandiwash taluk	12	..	Various kinds	..	..	..	
	Chittoor	28	..	Date, tamarind, mango, palmyra	..	..	..	
	Chandragiri	6	..	Mango, casuarina, palmyra	..	..	..	
				Total ..	..	852	852	
				Add miscellaneous expenditure adjusted under VIII *d*.	..	23	23	
		663			..	875	875	
South Arcot ..	No. I Range, Tiruvannámalai.	34	..	Tamarind, iluppai, nágai, vémbu, mango and katuválai	118·25	..	..	
	,, II ,, Tindivanam ..	7	..	Do. do. do. ..	34·73	..	..	
	,, III ,, Villupuram ..	14	..	Tamarind, iluppai, káttuvágai, vémbu, mango, sandal and casuarina	77·00	..	..	
	,, IV ,, Cuddalore ..	2	..	Tamarind, iluppai, karivélam, mango and nagal	12·00	..	..	
	,, IV ,, Chidambram ..	4	..	Karivélam, portia, tamarind, palmyra and iluppai	16·51	..	..	
	,, V ,, Tirukoilúr ..	17	..	Tamarind, vémbu, iluppai, mango and nágai ..	32·41	..	..	
	,, VI ,, Kallakurchi ..	9	..	Tamarind, iluppai, vémbu, nágai, karivélam, and velvélam	66·37	..	..	
	,, VII ,, Vriddháchalam ..	7	..	Tamarind, palmyra, mango, banian, odiyamkonnai	36·24	..	..	
		94		Total ..	393·51	..	8,712	The cost is that up to the end of the previous year omitted in the return for 1884-85, but now supplied.
Salem	Salem	51	..	Mango, tamarind, margosa, iluppai, cocoanut and sandal wood	557·47	759	57,950	
	Atúr	14	..	Cocoanut, tamarind, iluppai and margosa ..	107·62	450	8,915	
	Námakal	15	..	Cocoanut, tamarind, iluppai, margosa, vágai and mango	57·48	492	6,684	

Annual list of topes—*continued.*

District.	Range.	Number of topes.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Salem—*cont.* ..	Tiruchengód	17	..	Mango, tamarind, iluppai, margosa and nágai.	72·48	301	4,317	
	Hosúr	38	..	Mango, iluppai, senai, avaram, atti, casuarina and bamboos	521·53	701	28,051	
	Dharmapuri	25	..	Tamarind, iluppai, mango, margosa, nágai and karivélam	489·06	866	16,451	
	Krishnagiri	21	..	Iluppai, mango, tamarind, palmyra and karivélam	358·04	1,048	28,139	
	Tirupatúr	15	..	Tamarind, iluppai, mango, nágai and cocoanut	164·50	450	8,368	
	Uttankarai	32	..	Mango, iluppai, tamarind, pomegranate, cocoanut and margosa	235·60	239	31,212	
				Add miscellaneous expenditure adjusted under VIII *d*.	..	53	53	
		228		Total ..	* 2,563·78	5,359	* 1,90,140	* Increased by 9 acres owing to rectification of error in total in the past year.
Trichinopoly ..	Trichinopoly	6	..	Mango and iluppai	31·24	56	1,254	
	Kulitalai	6	..	Tamarind, mango and *sissu*	14·54	..	168	
	Musiri	2	..	Mango	4·25	..	..	
	Perambalúr	1	..	Do.	9·12	..	292	
	Udayárpálaiyam	1	..	Do.	2·	..	..	
		16		Total ..	61·55	56	1,714	
Tanjore	Western range	16	..	Cocoanut and mango	153·	..	..	
Coimbatore (North).	Satyamangalam	3	..	Palmyra	20·79	..	2,328	
	Kollegál	4	..	Karuvélam and tamarind	302·53	..	576	
	Bhavání taluk	26	..	Karuvélam and palmyra	371·62	..	1,799	
	Erode	52	..	Palmyra, velvélam and cocoanut	* 601·05	..	† 12,801	* 9·33 acres of Vadamugam Vellodu is newly added.
	Dhárápuram	76	..	Tamarind, palmyra and velvélam	12,478·84	..	..	† The cost on account of Tenmugam Vellodu tope of Rs. 31 up to the end of the previous year omitted in the return for 1884-85 is now added.
	Karúr	22	..	Palmyra and cocoanut	246·88	..	10,882	
		183					28,386	
					14,021·71	164	+ 164	
							28,550	
				Add pay of cooly watchers at Government topes at Nadupatti and Vellore and Erode taluks..	..	11	11 *	
				Total ..	14,021·71	175	28,561	

Annual list of topes—*continued.*

District.	Range.	No. of topes.	Name of tope.	Chief trees.	Area.	Cost.		Remarks.
						During year.	To end of year.	
					ACRES.	RS.	RS.	
Coimbatore (South).	Palladam	6	..	Velvélam, sandal, teak, palmyra and karuvélam	100·79	..	5,197	
	Coimbatore	2	..	Cocoanut trees	12·21	221	540	One of them is an experimental garden.
		8		Total ..	113·	221	5,737	
Madura	No. I, Periyakulam range ..	9	..	Tamarind, vémbu, iluppai, vágai, nával, bamboo, arasu and sandal wood	26·65	95	6,097	
	,, II, or Kodaikánal ,, ..	2	..	Tamarind, iluppai, vémbu, vágai and marutam	2·15	48	734	
	,, III, or Dindigul	8	..	Tamarind, margosa, iluppai, vágai and velvélam	52·51	..	3,502	
	,, IV, or Melúr	2	..	Margosa, iluppai, jack tree and mango ..	17·5	204	614	One of them is an experimental garden.
				Add pay of watchers adjusted under VIII *d* ..	..	947	947	
		21		Total ..	99·	1,294	11,894	
Tinnevelly ..	Tinnevelly	4	..	Mango, tamarind and palmyra	34·78	121	322	
	Tenkarai	1	..	Cocoanut, mango, jack and orange	·98	20	185	
	Otapidáram	2	..	Bamboo, casuarina and iluppai	11·44	..	328	
	Sátúr	2	..	Bamboo and tamarind	2·99	..	399	
	Sankaranainárkoil	6	..	Mango, bamboo, iluppai and banyan	15·21	..	731	
	Tenkási	8	..	Margosa, marudai and vágai	14·45	69	503	
	Ambásamudram	3	..	Margosa, marudai, vágai, iluppai and tamarind	9·	52	480	
	Nángunéri	4	..	Mango, bamboo, banyan and margosa ..	19·43	170	681	
		30		Total ..	108·	432	3,629	
Malabar (Wynaad) and Pálghat.	Wynaad sub-division	1	..	*Eucalyptus*, ceara rubber, cinchona, mahogany, sappan, *ficus elastica*, &c.	2·50	386	1,374	
	Pálghat range	2	..	Mango and jack tree	3·	..	..	
		3		Total ..	5·50	386	1,374	
Malabar (Nilambúr).	.....	..	..	.....	..	..	..	
Canara ..	.....	..	..	.....	..	..	..	
		1,269		Grand Total ..	17,598·42	9,040	2,59,914	

ANNUAL FORM No. 62.

Forest Department, Madras, Southern Circle.

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86.

District.	Forest tract.	UP TO 15TH JUNE 1885.		DURING THE REMAINING PERIOD OF THE OFFICIAL YEAR ENDING 31ST MARCH 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Tiruvallúr Range.	ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
Chingleput..	Kámbákam	7,350	1,257 0 0	7,350	..	7,350	240 0 0	1,497 0 0	1883-84	
	Total of the district ..	7,350	1,257 0 0	7,350	..	7,350	240 0 0	1,497 0 0	..	
	Vellore Range.									
	Puttár	12,800	375 0 0	12,800	..	12,800	..	375 0 0	1879	
	Patrakád	19,200	750 0 0	19,200	..	19,200	..	750 0 0	1881	
	Thellai reserve	12,800	1,077 0 0	15,121	2	15,119	20 0 0	1,097 0 0	..	
	Ambúr fuel reserve	3,834	716 0 0	3,840	..	3,840	37 0 0	753 0 0	1879	
	Do. plantation	5	..	5	..	5	..	..	1884	
	Carnaticghur reserve ..	12,748	1,002 0 0	7,069	..	7,069	48 0 0	1,050 0 0	1881	
	Kápalúr	1,280	..	1,267	..	1,267	..	..	1884	
	Kélúr	3,068	..	3,537	..	3,537	..	..	,,	
	Allíyamangalam reserve ..	10,502	..	10,062	..	10,062	..	..	,,	
	Ammerdi plantation ..	25	..	25	..	25	..	..	,,	
	Palamady reserve	6,330	307 0 0	6,400	..	6,400	4 0 0	310 0 0	1880	
	Chandragiri Range.									
	Napier reserve ..	8,772	820 0 0	8,772	..	8,772	52 0 0	872 0 0	1880	
North Arcot.	Mámundúr do. ..	1,776	1,053 0 0	1,776	..	1,776	19 0 0	1,042 0 0	1874	
	Chámala do. ..	9,300	111 0 0	9,600	..	9,600	30 0 0	141 0 0	1880	
	Panapák do. ..	6,400	47 0 0	6,400	..	6,400	41 0 0	88 0 0	,,	
	Pudipatlabail do. ..	2,560	25 0 0	2,560	..	2,560	..	25 0 0	1884	
	Paradarámi do. ..	6,400	97 0 0	15,242	..	15,242	37 0 0	134 0 0	1880	
	Airála do. ..	6,400	116 0 0	6,400	..	6,400	33 0 0	149 0 0	,,	
	Penamúr do. ..	6,400	..	6,400	..	6,400	..	..	,,	
	Chittoor do. ..	2,560	135 0 0	360	..	360	..	135 0 0	1882	
	Santapet do. ..	2,560	15 0 0	2,276	..	2,276	11 0 0	26 0 0	,,	
	Bommasamudram reserve ..	3,000	..	1,426	..	1,426	412 0 0	412 0 0	1884	
	Chilapalle reserve	1,063	..	1,266	..	1,266	25 0 0	25 0 0	,,	
	Kinátipalle do.	2,856	..	1,417	..	1,417	12 0 0	12 0 0	,,	
	Gazulamandiyam plantation.	243	..	250	..	250	..	..	,,	
	Palmanér Range.									
	Mortanaj reserve ..	16,000	368 0 0	16,000	..	16,000	36 0 0	404 0 0	1884	
	Musalimadugu do. ..	9,600	64 0 0	9,600	..	9,600	20 0 0	84 0 0	,,	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Palmanér Range—continued.	ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
North Arcot —*continued.*	Peddúr reserve	9,600	233 0 0	9,600	3	9,597	50 0 0	283 0 0	1880	
	Basuvareddipalle reserve ..	10,240	48 4 0	10,240	..	10,240	24 0 0	72 0 0	1884	
	Ambúr Drug do. ..	5,760	..	5,760	..	5,760	..	..	1880	
	Naikanéri do. ..	6,400	202 0 0	6,400	..	6,400	58 0 0	260 0 0	1884	
	Vikramasi do. ..	161	17 0 0	161	..	161	..	17 0 0	1882	
	Tiruvallam plantation ..	435	..	435	..	435	..	..	1884	
	Virinjipuram do. ..	260	..	260	..	260	..	..	,,	
	Chainúr do. ..	130	..	130	..	130	..	..	,,	
	Ammundi do. ..	160	..	160	..	160	..	..	,,	
	Tándráyagunta do. ..	2	..	2	..	2	..	..	,,	
	Palmanér do. ..	2	..	2	..	2	..	..	,,	
	Nagamangalam do. ..	31	..	31	..	31	..	..	,,	
	Píduguvaripalle do. ..	20	..	20	..	20	..	..	,,	
	Venkatagirikota do. ..	4	..	4	..	4	..	..	,,	
	Baireddipalle do. ..	4	..	4	..	4	..	..	,,	
	Head-quarter Range.									
	Punganúr reserve	5,400	704 0 0	3,743	½	3,743	102 0 0	806 0 0	1884	
	Sátúr do.	1,048	..	1,048	..	1,048	..	..	,,	
	Sennaléri do.	1,185	..	356	..	356	..	..	,,	
	Tandalappantangal reserve..	1,154	..	1,154	..	1,154	..	..	,,	
	Sholavaram reserve	1,281	..	1,281	..	1,281	..	..	,,	
	Enadavádi do.	1,566	..	1,566	..	1,566	..	..	,,	
	Kílminnal plantation ..	150	..	112	..	112	..	..	,,	
	Pennur reserve ..	1,676	..	939	..	939	..	..	1880	
	Venkundram do. ..	822	..	1,288	..	1,288	..	..	,,	
	Badur do. ..	829	..	873	..	873	..	..	,,	
	Nambedu do. ..	929	..	720	..	720	..	..	,,	
	Kodiyalam do. ..	255	..	125	..	125	..	..	,,	
	Nedungal do. ..	3,632	..	3,645	..	3,645	..	..	1883	
	Vishámangalam do. ..	1,148	..	1,148	..	1,148	..	..	,,	
	Nedungunam do. ..	1,798	..	1,797	..	1,797	..	..	,,	
	Bramhakáteri do. ..	1,589	..	635	..	635	..	..	,,	
	Gúdalúr do. ..	559	..	535	..	535	..	..	1880	
	Kanjampet do. ..	154	..	..	..	..	..	..	,,	
	Ammanur do. ..	210	..	203	..	203	..	..	,,	
	Uriyúr do. ..	672	..	540	..	540	..	..	,,	
	Bánavaram do. ..	1,071	..	1,085	..	1,085	..	..	,,	
	Anapák do. ..	61	..	..	..	..	..	..	,,	
	Tengal do. ..	120	..	250	..	250	..	..	,,	
	Ammúr do. ..	5,818	..	6,020	..	6,020	..	..	1884	
	Kolatúr do. ..	1,781	..	1,779	..	1,779	..	..	,,	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Head-quarter Range—continued.	ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
North Arcot—*continued.*	Minnel reserve	1,395	..	1,378	..	1,378	..	..	1884	
	Vannivedu plantation ..	30	..	30	..	30	..	..	,,	
	Arkónam Sub-Magistrate's compound.	5	..	5	..	5	..	..	,,	
	Head Assistant Collector's compound.	4	..	..	..	..	..	..	..	
	Arkónam plantation ..	37	..	37	..	37	..	..	1884	
	Total of the district ..	237,869	8,372 0 0	234,572	5½	234,566	739 0 0	9,111 0 0	..	
	No. I, Tiruvannámalai Range.									
South Arcot.	Anaimalai reserved forests..	3,000	1,471 0 0	1,760	..	..	..	..	From dry season, 1878, inclusive.	
	Do. other forests ..			600	..	..	..	..	Do.	
	Kavuttimalai	7,500		6,000	..	..	..	..	Do.	
	Tenmalai	20,000		20,000	200	..	..	..	1877	
	Mudinai	4,000		4,000	..	..	..	..	1883	
	Damarakádu and Jammalai.	6,400		8,000	120	..	..	..	1884	
					..	..	..	..	1884-85	
	Chinnasamudram	6,200		6,000	..	..	..	..	1878	
	Javadi slopes above Arasangani and over the Chinnasamudram.	..		2,000	..	..	..	..	1885-86	
	Pelamarathúr	..		8,000	..	..	..	..	,,	
	Nallapattu	..		7,000	..	102,010	495 0 0	1,966 0 0	,,	
	Valasalmalai	4,000		7,000	..	..	..	..	1883-84	
	Perungkolatúr Swamimalai, including 2,000 acres in Kullakurchi taluk.	8,000		11,000	..	..	..	..	,,	
	No. IV, Kullakurchi Range.									
	Tagarai	11,000		15,000	30	..	..	..	1883-84	
	Kanai Moyamalai	..		2,000	..	..	..	..	1885-86	
	Pangam Kandatimalai ..	..		1,000	..	..	..	..	,,	
	Pevalam Peramatalmalai ..	..		1,000	..	..	..	..	,,	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	No IV, Kullakurchi Range—continued.	Acs.	Rs. A. P.	Acs.		Acs.	Rs. A. P.	Rs. A. P.		
South Arcot—*cont.*	Rungappanur including Naraimalai.	..	1,471 0 0	2,000	..	..	..	..	1885-86	To effect this protection during the current fire-season, 86 miles of fire-lines cleared, 16½ miles fire-traced.
	Deduct area of land occupied by fire-tracers, &c., and the acreage of failure, of which particulars are not specified.	128		..	..	..	..	..	..	
	Total of the district ..	69,972	1,471 0 0	102,360	350	102,010	495 0 0	1,966 0 0	..	
	Salem Range.									
Salem ..	Vadagampatti blocks of Kanavaipudur reserved land..	1,976	864 0 0	1,976	..	1,976	218 0 0	1,082 0 0	1881	
	Merur block of Lokur reserved land.	799	386 0 0	799	..	799	120 0 0	506 0 0	„	
	Mullapuram block of Mullapuram reserved land.	587	375 0 0	587	..	587	135 0 0	510 0 0	„	
	Ammanúr block of Lokur reserved land.	252	144 0 0	252	..	252	34 0 0	178 0 0	1882	
	Pelapallikombai block of Pelapallikombai reserved land.	981	324 0 0	981	..	981	32 0 0	356 0 0	„	
	Kariyappakombai block of Jarimalai and Kanavaipudur reserved land.	531	201 0 0	531	..	531	59 0 0	260 0 0	„	
	Kanjiri block of Kanjiri reserved land.	1,929	154 0 0	1,929	..	1,929	63 0 0	217 0 0	1883	
	Pannikaradu block of Kanjiri and Pannikaradu reserved lands.	2,645	879 1 0	2,645	..	2,645	71 0 0	950 0 0	„	
	Karuvattuparai block of Karuvattuparai reserved land.	837	463 0 0	837	..	837	98 0 0	561 0 0	1884	
	Total, Salem range ..	10,537	3,790 0 0	10,537	..	10,537	830 0 0	4,620 0 0	..	

Salem Range.

Map area	10,537	acres.
Outline	58	miles.
Interior lines ..	13½	„

Fire-traced.

First	27½	miles.
Renewed	43¾	„
Total ..	71¼	

	Rs. A. P.
Cost per mile	11 10 4
Cost per acre	0 1 3

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Uttankarai Range.	ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		*Uttankarai Range.*
Salem.—*cont.*	Uttankarai block of Uttankarai reserved land.	469	240 0 0	469	..	469	67 0 0	307 0 0	1881	Map area .. .. 4,269 acres.
	Singarapet block of Singarapet reserved land.	2,624	1,022 0 0	2,624	1	2,623	185 0 0	1,207 0 0	,,	Outline .. .. 19½ miles.
	Harúr block of Harúr reserved land.	1,176	459 0 0	1,176	2	1,174	97 0 0	556 0 0	1882	Interior lines .. 8½ ,,
	Total, Uttankarai range ..	4,269	1,721 0 0	4,269	3	4,266	349 0 0	2,070 0 0	..	*Fire-traced.*
										First .. .. *Nil.*
										Renewed .. .. 25½ miles.
										Total .. 25½ ,,
	Tirupatúr Range.									RS. A. P.
	Kolatúr block of Nagalatu reserved land.	1,213	20 0 0	1,213	..	1,213	66 0 0	86 0 0	1885	Cost per mile 13 10 11
	Total, Tirupatúr range ..	1,213	20 0 0	1,213	..	1,213	66 0 0	86 0 0	..	Cost per acre 0 1 3
	Krishnagiri Range.									
	Bégúr block of Bégúr reserved land.	220	148 0 0	220	..	220	3 0 0	151 0 0	1883	
	Pudúr block of Kotúr reserved land.	1,069	485 0 0	1,069	..	1,069	34 0 0	519 0 0	,,	
	Togarapalli block of Togarapalli reserved land.	499	82 0 0	499	..	499	15 0 0	97 0 0	1884	
	Total, Krishnagiri range ..	1,788	715 0 0	1,788	..	1,788	52 0 0	767 0 0	..	
	Hosúr Range.	..	..	5,461	..	5,461	..	..	1885	*Hosúr Range.*
	Mailgiri, block of Ayyur and Marandaholli reserved lands.	..	..	742	..	742	34 0 0	34 0 0	,,	Map area .. 13,172 acres.
	Kanavoikothapalli block of Gulhatti new and Tholavabetta reserved lands.	..	..	3,248	..	3,248	..	..	,,	Outline .. .. 42½ miles.
	Gulhatti block of Gulhatti new reserved land.									Interior lines .. *Nil.*
										Fire-traced.
										First .. .. 8 miles.
										Renewed .. .. *Nil.*
										Total .. 8 miles.
										RS. A. P.
										Cost per mile 7 13 2
										Cost per acre 0 0 1

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Hosur Range—continued.	ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
Salem—*cont.*	Munchi block of Munchi new reserved land.	..	..	3,305	..	3,305	..	..	1885	
	Kanavanagasundram block of Thaluvabetta reserved land.	..	..	416	..	416	28 0 0	28 0 0	,,	
	Total, Hosúr range ..	..	..	13,172	..	13,172	62 0 0	62 0 0	..	
	Total of the district ..	17,807	6,246 0 0	30,979	3	30,976	1,359 0 0	7,605 0 0	..	
	Musiri Range.									
Trichinopoly.	Sengathipatti	..	..	3,000	..	3,000	* 32 0 0	..	1885-86	* Pay of watchers.
	Melúr	..	..	3,000	..	3,000	38 0 0	..	,,	
	Perambalúr Range.									
	Manalodai	..	..	4,000	..	4,000	37 0 0	..	,,	
	Solamatti †	..	..	7,000	..	7,000	677 0 0	..	,,	† Both inner and outer fire-lines cut are estimated to be upwards of 22 miles in length.
	Total of the district ..	..	..	17,000	..	17,000	784 0 0	784 0 0	..	
Tanjore ..	....	*Nil.*								
	Kollegál Range.									
Coimbatore (North).	I. Jadatalahalla	361	77 0 0	361	..	361	19 0 0	96 0 0	1884-85	
	II. Udayárpálaiyam ..	297	35 0 0	297	..	297	10 0 0	45 0 0	,,	
	III. Bailur	1,186	211 0 0	1,186	..	1,186	7 0 0	218 0 0	1879-80	
	Satyamangalam Range.									
	IV. Gairmalla	520	33 0 0	520	..	520	10 0 0	43 0 0	1885-86	
	Total ..	2,364	356 0 0	2,364	..	2,364	46 0 0	402 0 0	..	

Salem District.

Map area .. 30,979 acres.
Outline .. .. .. 142 miles.
Interior lines .. 25¼ ,,

Fire-traced.

First .. .. 41 miles.
Renewed .. .. 85¾ ,,
Total .. 126¾ ,,

	RS. A. P.
Cost per mile of fire-line	10 11 8
Cost per acre actually protected	0 0 8

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Tunakadavu Range.	Acs.	Rs. A. P.	Acs.		Acs.	Rs. A. P.	Rs. A. P.		
Coimbatore (South).	No. I reserve	2,600	606 0 0	2,630	2,630	..	422 0 0	1,028 0 0	1882-83	
	Punachi No. II reserve	3,140	641 0 0	3,140	..	3,140	37 0 0	678 0 0	,,	
	Udamalpet-Pálár reserve	485	162 0 0	485	..	485	26 0 0	188 0 0	1883-84	
	Bolampatti blocks I and II	6,400	217 0 0	6,400	..	6,400	195 0 0	412 0 0	1884-85	
	Sholakarai-Sholakarai	1,292	784 0 0	1,292	..	1,292	151 0 0	935 0 0	1883-84	
	Total of the district	13,917	2,410 0 0	13,947	2,630	11,317	831 0 0	3,241 0 0	..	
	No. I, or Periyakulam Range.									
Madura	Vannattiparai teak plantation.	4	4 0 0	4	..	4	..	4 0 0	1883-84	
	Vannattiparai reserved forest.	27,481	233 0 0	27,481	340	27,141	168 0 0	401 0 0	1884-85	
	Pambár	3,255	817 0 0	4,755	46	4,709	693 0 0	1,510 0 0	1883-84	
	Murugamalai reserved land	3,227	72 0 0	3,227	..	3,227	266 0 0	338 0 0	1884-85	
	Seeranganar	..	..	3,616	..	3,616	12 0 0	12 0 0	1885-86	
	Melagudalur	..	..	1,280	300	980	16 0 0	16 0 0	,,	
	Sengalvarai	..	..	5,210	..	5,210	43 0 0	43 0 0	,,	
	No II, or Kodaikánal Range.									
	Kodaikánal scattered plantation.	3	6 0 0	3	..	3	..	6 0 0	1883-84	
	Kodaikánal acacia	5	4 0 0	5	..	5	..	4 0 0	,,	
	Pumbarai	6	3 0 0	6	..	6	..	3 0 0	,,	
	Perumalmalai	2,880	394 0 0	8,000	300	7,700	280 0 0	674 0 0	,,	
	Pannakad reserved land	2,560	180 0 0	2,560	..	2,560	103 0 0	283 0 0	,,	
	Velamkombai plantation	4	10 0 0	4	..	4	..	10 0 0	,,	
	Parappar	42	11 0 0	42	..	42	..	11 0 0	1884-85	
	Arrankanal	..	..	2,560	..	2,560	..	..	1885-86	
	Kallar	..	..	9,600	..	9,600	42 0 0	42 0 0	,,	
	Pumbarai and Velpatti valley.	..	..	13,587	30	13,557	162 0 0	162 0 0	,,	
	No. III, Dindigul Range.									
	Mudimalai	6,086	51 0 0	6,086	..	6,086	76 0 0	127 0 0	1884-85	
	The whole of Sirumalai *	12,764	257 0 0	13,405	..	13,405	321 0 0	578 0 0	1885-86	* A portion of this measuring about 12,764·8 acres were protected in 1884-85 at a cost of Rs. 257-1-11.
	No. V, or Madura Range.									
	Alagarmalai	13,036	3,814 0 0	13,036	5	13,031	1,048 0 0	4,862 0 0	1882-83	
	Vaggathimalai reserved land	4,200	100 9 0	4,200	..	4,200	149 0 0	258 0 0	1884-85	
	Kachakattai reserved land	1,694	..	1,694	..	1,694	..	..	,,	
	Total of the district	77,249	5,965 0 0	120,362	1,021	119,341	3,379 0 0	9,344 0 0	..	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
	Ambásamudram.									
Tinnevelly..	Block between Sarveyar and Kareyar rivers, Pápanásam hills.	10,477	652 0 0	10,477	..	10,477	821 0 0	1,473 0 0	1884-85	
	Block of forests between Sarveyar, Kinampannai, Teri and Muttirimottai, Pápanásam hills.	..	..	1,200	..	1,200	158 0 0	158 0 0	1885-86	
	Nángunéri.									
	Block of forests on the Kalakad hills commencing from Mulakasani *viâ* Punjanthanji to Kiraithondu Kavaian from Kopurakilmottar to Retterikal and following the line of cairns towards the Agilisastankoil.	..	..	8,320	175	8,145	538 0 0	538 0 0	,,	
	Tenkási.									
	Boundary line between Chokkampatti and Government forests, 30 feet wide.	..	..	3 miles.	..	3 miles.	54 0 0	54 0 0	,,	
	Boundary line between Vairavankulam and Government forests.	..	..	10 ,,	..	10 ,,	180 0 0	180 0 0	,,	
	Sankaranainárkoil.									
	Boundary between Tirumalai Naicken Pudukudi and Government forests.	..	..	3 ,,	..	3 ,,	9 0 0	9 0 0	,,	
	Total of the district ..	10,477	652 0 0	19,997 16 miles of boundary line.	175	19,822 16 miles of boundary line.	1,760 0 0	2,412 0 0	..	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Wynaad and Palghat.	Acs.	Rs. A. P.	Acs.		Acs.	Rs. A. P.	Rs. A. P.		
Malabar (Wynaad and Pálghat).	Begúr	15,229	944 0 0	15,366	5,440	9,926	494 0 0	1,438 0 0	1882-83	
	Wálayár	3,012	3,122 0 0	3,017	..	3,017	445 0 0	3,567 0 0	1873-74	
	Chenat Nair	2,560	152 0 0	2,560	40	2,520	121 0 0	273 0 0	1884-85	
	Total of the district ..	20,801	4,218 0 0	20,943	5,480	15,463	1,060 0 0	5,278 0 0	..	
Malabar (Nilambúr.)	Karampoya reserves ..	3,945	105 0 0	3,955	..	3,955	87 0 0	192 0 0	1884-85	
	Amarampalam do. ..	409	101 0 0	409	..	409	50 0 0	151 0 0	1860-61	
	Chathemborai do. ..	..	..	499	..	499	64 0 0	64 0 0	1872-73	
	Nellikutta forest	1,799	170 0 0	1,824	..	1,824	118 0 0	288 0 0	1883-84	
	Other teak plantations ..	3,027	591 0 0	2,493	..	2,493	335 0 0	926 6 0	1842-43	
	Total of the district ..	9,180	967 0 0	9,180	..	9,180	654 0 0	1,621 0 0	..	
South Canara	*Kásaragód Range.*									
	Parappa	115	82 0 0	115	..	115	25 0 0	107 0 0	1882-83	
	Udipi Range.									
	Pillarkan	320	21 0 0	320	2	318	..	22 0 0	1883-84	
	Chinkramale	..	..	..	..	..	88 0 0	88 0 0	1885-86	Area unknown. The work of protection being late, fires occurred in places outside and burned up to and a little inside the boundary when the grass was still somewhat green.
	Mangalore Range.									
	Chembugudde	75	3 0 0	75	..	75	7 0 0	9 0 0	1884-85	
	Kuttiyar	25	2 0 0	25	..	25	4 0 0	6 0 0	,,	
	Portagi and Kayarpallar ..	..	..	96	3	93	5 0 0	5 0 0	1885-86	
	Coondapoor Range.									
	Sabladi	208	..	208	21	187	6 0 0	6 0 0	1884-85	
	Total of the district ..	743	108 0 0	* 839	26	* 813	135 0 0	243 0 0	..	* Excluding Chenkramalai.
	Grand Total ..	467,729	32,022 0 0	579,893	9,690½	570,502	11,482 0 0	43,504 0 0	..	

Charged in previous years	28,653 0 0
Do. in 1885-86 (April to June)	3,369 0 0
Do. in 1885-86 (June to 31st March 1886) ..	11,482 0 0
Total ..	43,504 0 0

Annual Form No. 63.

Forest Department, Madras, Southern Circle.

Prosecutions for breaches of forest rules during 1885-86.

District.	Cases pending from 1884-85.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracks in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Chingleput	..	..	10	..	..	10	10	8	22	2	17	10	39	..
North Arcot	3	1	84	14	1	100	103	75	189	28	122	103	311	..
South Arcot	4	..	21	1	2	24	28	16	47	9	22	25	69	3
Salem	* 74	2	379	27	16	424	498	175	572	276	1,715	451	2,287	47
Trichinopoly	25	..	76	3	11	90	115	90	180	22	44	112	224	3
Tanjore	† 3	..	45	..	..	45	48	39	39	8	9	47	48	1
Coimbatore-North	..	..	9	1	2	12	12	8	37	4	8	12	45	..
Coimbatore-South	..	1	2	..	18	21	21	17	37	4	12	21	49	..
Madura — Under the Forest Act	28	6	73	9	18	106	134	48	98	76	252	124	350	10
Madura — Under the Penal Code	2	..	6	..	..	6	8	5	8	3	11	8	19	..
	30	6	79	9	18	112	142	53	106	79	263	132	369	10
Tinnevelly	9	5	80	8	3	96	105	80	344	22	30	102	374	3
Malabar (Wynaad and Pálghat)	..	1	3	4	4	12	12	6	27	6	15	12	42	..
Malabar (Nilambúr)	..	..	3	2	7	12	12	7	13	5	18	12	31	..
South Canara	‡ 41	11	183	..	2	196	237	71	122	142	247	213	369	24
Total ..	189	27	974	69	84	1,154	1,313	645	1,735	607	2,522	1,252	4,257	91

* The number of cases shown as pending cases of last year is 89. The present figure is more accurate and is taken from the returns submitted by Magistrates. Last year's figures were taken from the statements submitted by range officers and probably included cases pending with them to be charged after preliminary inquiry.

† Four cases are shown as pending in the return for 1884-85 ; but only three are shown in this return, the other one which was pending before the Taluk Magistrate, Shiyáli, having been disposed of under the Penal Code, and hence omitted in this return.

‡ 44 in the previous return. Difference not explained.

ANNUAL FORM NO. 64.

Forest Department, Madras, Southern Circle.

SUMMARY of revenue of the different districts, 1885-86.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Coimbatore (North).
1	2	3	4	5	6	7	8	9
Receipts.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Timber and other produce removed from the forests by Government agency—								
(*a*) Timber	..	5,297 10 7	3,239 2 0	4,861 12 10	1,570 13 8	411 10 0	..	..
(*b*) Firewood and charcoal	..	2 13 6	8,690 3 3	2,893 13 10	..	11,443 10 0	..	..
(*c*) Bamboos	..	..	..	..	86 6 0	77 8 0	..	..
(*d*) Sandalwood	..	..	4,478 3 3	464 4 9	9,329 10 11	..	..	2,000 0 0
(*e*) Grass and other minor produce	..	..	94 4 11	241 14 8	13 2 0	131 8 0	..	..
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	..	4,352 15 10	19,483 9 10	2,165 9 8	12,326 10 8	4,035 2 5	186 0 0	5,528 15 0
(*b*) Firewood and charcoal	..	7,544 12 10	39,400 3 3	15,569 9 11	24,210 15 8	8,776 13 0	4,963 9 8	4,546 11 10
(*c*) Bamboos	..	494 6 0	15,448 3 6	2,776 14 6	17,178 9 0	2,452 15 7	9 4 0	8,402 11 6
(*d*) Grazing and fodder grass	..	..	100 0 0	68 15 3	418 13 2	2,122 5 0	200 2 6	1,437 10 0
(*e*) Other minor produce	..	1,923 5 7	11,312 13 11	6,384 6 0	55,309 5 1	2,483 7 9	1,951 7 3	22,598 11 5
III. Confiscated drift and waifwood	..	17 10 8	337 1 3	438 13 9	974 6 1	32 3 2	9 13 9	309 6 1
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(*a*) Fines and forfeitures	..	..	..	53 5 0	1 12 0	1 0 0	..	..
(*b*) Refund	88 12 4	74 4 6	56 3 6	1 7 4	307 6 1	0 0 10	..	12 9 0
(*c*) Other sources	4 13 8	15 0 9	358 13 6	379 9 3	1,469 1 7	21 6 0	2 4 6	1,494 5 6
Total ..	93 10 0	19,723 0 3	1,02,998 14 2	36,300 8 9	1,23,196 15 11	31,989 9 9	7,322 9 8	46,331 0 4

Summary of revenue of the different districts, 1885-86—*continued.*

Budget heads.	Coimbatore (South).	Madura.	Tinnevelly.	Malabar (Wynaad and Pálghat).	Malabar (Nilambúr).	South Canara.	Total.
	10	11	12	13	14	15	16
Receipts.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I. Timber and other produce removed from the forests by Government agency—							
(*a*) Timber	7,387 8 6	203 3 0	1,891 7 0	28,648 9 1	79,497 3 0	1,672 5 11	1,34,681 5 7
(*b*) Firewood and charcoal	720 0 0	1,366 10 0	..	5,535 10 9	46 0 0	78 2 6	30,776 15 10
(*c*) Bamboos	46 3 0	..	182 0 0	148 9 4	603 13 10	..	1,144 8 2
(*d*) Sandalwood	..	..	..	..	..	..	16,272 2 11
(*e*) Grass and other minor produce	2,277 15 8	154 4 0	48 8 9	351 13 0	..	9,994 14 1	13,308 5 1
II. Timber and other produce removed from the forests by consumers or purchasers—							
(*a*) Timber	8,210 0 2	6,673 12 3	5,153 11 7	1,209 12 0	..	3,537 10 9	72,863 14 2
(*b*) Firewood and charcoal	9,311 0 11	12,783 11 6	20,919 12 2	279 8 6	..	17,025 5 7	1,65,332 2 10
(*c*) Bamboos	6,425 10 5	2,196 13 6	489 4 4	376 14 0	390 10 7	753 0 2	57,395 5 1
(*d*) Grazing and fodder grass	2,064 4 6	1,338 3 0	57 4 0	107 0 0	..	..	7,914 9 5
(*e*) Other minor produce..	8,014 2 9	9,949 9 5	10,079 12 0	1,230 4 0	..	4,206 14 8	1,35,444 3 10
III. Confiscated drift and waifwood	293 12 4	1,770 10 10	234 14 10	..	..	1,392 5 3	5,811 2 0
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..
V. Miscellaneous—							
(*a*) Fines and forfeitures	..	9 4 0	35 0 0	..	..	..	100 5 0
(*b*) Refunds	15 0 0	210 3 11	922 14 9	81 3 3	2 7 6	176 13 2	1,949 6 2
(*c*) Other sources	283 12 0	1,214 3 11	104 1 3	1,565 9 6	600 0 0	1,810 4 7	9,323 6 0
Total ..	45,049 6 3	37,870 9 4	40,118 10 8	39,534 13 5	81,140 2 11	40,647 12 8	6,52,317 12 1

MADRAS,
1st July 1886.

(Signed) G. HOMFRAY,
Acting Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of expenditure of the different districts, 1885-86.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Coimbatore (North).
1	2	3	4	5	6	7	8	9
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
A.—*Conservancy and Works.*								
I. Timber and other produce removed from the forests by Government agency—								
(*a*) Timber	..	1,627 2 8	1,030 3 0	2,089 3 8	1,473 7 1	49 6 0	..	20 4 1
(*b*) Firewood and charcoal	..	..	1,087 15 1	1,573 14 5	25 4 0	4,279 12 0	..	..
(*c*) Bamboos	..	..	92 13 0	..	47 0 0	16 1 6	..	..
(*d*) Sandalwood	..	..	637 9 2	60 2 0	274 0 3	..	..	34 12 4
(*e*) Grass and other minor produce	..	..	..	118 14 0	172 10 0	30 0 0	..	..
II. Timber and other produce removed from the forests by consumers or purchasers	1,415 3 0	641 8 3	6,060 10 2	1,847 2 2	8,348 8 5	4,050 5 6	268 2 8	4,641 8 0
III. Confiscated drift and waifwood	..	..	2 4 0	0 13 6	67 3 3	..	..	51 14 0
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..
VI. Live-stock, stores, tools and plant—								
(*a*) Purchase of cattle	..	..	..	25 0 0	..	140 0 0	..	..
(*b*) Feed and keep of cattle	..	..	..	14 9 6	..	112 0 0	..	..
(*c*) Stores, tools and plant	161 9 0	321 6 0	394 13 0	187 14 4	35 4 0	265 0 3	7 12 2	83 2 8
VII. Communications and buildings—								
(*a*) Roads and bridges	..	215 12 0	370 14 0	1,328 14 2	103 7 0	..	..	..
(*b*) Buildings	..	70 9 0	1,076 14 2	352 14 5	1,081 13 2	235 0 0	..	568 8 8
(*c*) Other works	..	..	..	97 15 0	..	..	..	18 8 0
VIII. Demarcation, improvement and extension of forests—								
(*a*) Demarcation	..	499 12 11	172 15 0	2,649 5 6	1,044 11 9	181 14 0	20 13 2	1,321 1 4
(*b*) Compensation for land and rights	..	..	..	..	403 12 0	52 0 0	..	120 0 0
(*c*) Surveys and working plans	34 0 0	..	60 0 0	27 7 6	..	112 1 9	..	..
(*d*) Plantations	..	1,634 15 11	7,689 7 2	7,938 10 7	5,358 12 1	3,644 5 1	2,956 0 2	806 13 9
(*e*) Protection from fire	..	240 0 0	1,885 2 10	632 0 11	1,542 6 6	784 10 3	..	158 5 8
(*f*) Other works	20 9 5	865 5 6	4,621 6 3	5,847 5 9	1,596 4 1	462 13 9	1,303 0 0	702 2 11
IX. Miscellaneous—								
(*a*) Refunds	..	40 0 0	349 9 0	46 4 0	500 11 5	57 12 0	..	1,262 14 2
(*b*) Law charges	..	..	45 2 0	..	489 6 0	..	..	20 6 0
(*c*) Other charges	628 7 7	39 7 3	14 9 6	65 1 6	207 13 11	..	2 0 0	34 4 7
Total, A.—Conservancy and Works	2,259 13 0	6,195 15 6	25,592 3 4	24,903 8 11	22,772 6 11	14,473 2 1	4,557 12 2	9,844 10 2

Summary of expenditure of the different districts, 1885-86—*continued.*

Budget heads.	Coimbatore (South).	Madura.	Tinnevelly.	Malabar (Wynaad and Pálghat).	Malabar (Nilambúr).	South Canara.	Total.
	10	11	12	13	14	15	16
A.—Conservancy and Works.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I. Timber and other produce removed from the forests by Government agency—							
(*a*) Timber	3,075 5 8	101 8 0	2,479 1 5	5,301 13 9	19,342 13 2	569 15 4	37,160 3 10
(*b*) Firewood and charcoal	347 0 0	522 15 1	..	1,009 14 0	..	..	8,840 10 7
(*c*) Bamboos	18 6 0	..	143 0 0	389 12 3	..	..	707 0 9
(*d*) Sandalwood	..	..	..	?.	..	..	1,006 7 9
(*e*) Grass and other minor produce	1,497 13 5	50 0 0	62 0 7	291 13 0	..	8,180 2 1	10,962 5 1
II. Timber and other produce removed from the forests by consumers or purchasers	3,707 15 7	4,408 7 8	4,206 4 11	233 7 3	..	3,323 4 0	43,152 7 7
III. Confiscated drift and waifwood	81 8 1	264 1 0	30 5 0	..	2 12 0	3 8 8	504 5 6
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	3,062 13 10	..	3,062 13 10
VI. Live-stock, stores, tools and plant—							
(*a*) Purchase of cattle	..	170 0 0	..	418 0 0	1,077 9 6	..	1,830 9 6
(*b*) Feed and keep of cattle	89 12 8	226 15 7	..	2,898 1 8	1,881 13 8	..	5,223 5 1
(*c*) Stores, tools and plant	988 11 6	76 12 0	99 8 6	276 14 5	106 7 0	54 3 0	3,059 5 10
VII. Communications and buildings—							
(*a*) Roads and bridges	2,225 14 8	225 2 2	2,250 10 6	264 4 0	3 0 0	..	6,987 14 6
(*b*) Buildings	3,043 13 8	612 13 4	523 14 6	5,926 3 4	207 10 0	370 6 8	14,070 8 11
(*c*) Other works	33 0 0	..	9 12 0	..	..	..	159 3 0
VIII. Demarcation, improvement and extension of forests—							
(*a*) Demarcation	1,763 0 8	179 14 0	787 1 0	332 10 6	..	774 8 7	9,727 12 5
(*b*) Compensation for land and rights	..	200 0 0	305 0 0	..	..	..	1,080 12 0
(*c*) Surveys and working plans	554 3 4	189 5 0	32 13 0	57 13 6	..	..	1,067 12 1
(*d*) Plantations	220 14 2	1,572 8 2	431 8 7	700 2 4	4,819 12 2	654 3 10	38,428 2 0
(*e*) Protection from fire	1,378 9 0	4,098 8 8	1,832 4 1	1,654 6 0	705 2 0	135 7 3	15,046 15 2
(*f*) Other works	1,099 4 9	230 0 0	3,651 5 5	2,155 13 10	171 8 0	332 6 6	23,059 6 2
IX. Miscellaneous—							
(*a*) Refunds	10 4 0	246 12 4	1,012 9 5	30 11 3	450 4 5	1,288 4 1	5,296 0 1
(*b*) Law charges	10 0 0	107 0 0	..	650 14 0	5 0 0	..	1,327 12 0
(*c*) Other charges	106 7 5	17 5 3	173 9 10	858 6 3	..	90 7 1	2,238 0 2
Total, A.—Conservancy and Works	20,252 0 7	13,500 0 3	18,589 12 9	23,451 1 4	31,836 9 9	15,776 13 1	2,34,005 13 10

MADRAS,
1st July 1886.

(Signed) G. HOMFRAY,
Acting Examiner of Forest Accounts.

Annual Form No. 64.

Forest Department, Madras, Southern Circle.

Summary of expenditure of the different districts, 1885-86.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Coimbatore (North).
1	2	3	4	5	6	7	8	9
B.—*Establishments.*	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Brought forward—Total, A.—Conservancy and Works.	2,259 13 0	6,195 15 6	25,592 3 4	24,903 8 11	22,772 6 11	14,473 2 1	4,557 12 2	9,844 10 2
I. Salaries—								
(*a*) Conservators	16,250 0 0	..	..	..	..	..	..	..
(*b*) Superior officers	19,459 2 10	..	5,400 0 0	7,800 0 0	9,600 0 0	5,400 0 0	..	8,394 2 11
(*c*) Subordinate forest and depôt establishments.	2,766 0 0	4,374 0 8	9,288 13 4	9,470 9 7	11,807 14 9	4,374 1 7	1,742 4 11	5,422 9 9
(*d*) Office establishments	15,077 0 8	711 0 6	1,866 1 6	1,840 7 10	2,094 14 11	1,367 15 3	508 0 0	1,947 8 4
(*e*) Deputation and special allowances	350 9 9	..	..	..	..	1,390 5 1	..	..
II. Travelling allowances—								
(*a*) Conservators	3,421 13 10	..	..	..	..	..	..	..
(*b*) Superior officers	3,401 13 10	..	1,528 15 3	1,800 0 0	1,800 0 0	1,496 12 5	..	1,772 12 1
(*c*) Subordinate forest and depôt establishments.	866 0 8	969 11 4	2,458 0 8	1,322 7 10	3,219 1 3	1,438 15 0	272 7 4	1,694 0 5
(*d*) Office establishments	2,041 10 4	71 1 10	150 0 6	394 7 2	286 4 2	69 11 11	156 7 8	184 15 10
III. Contingencies—								
(*a*) Stationery	28 13 7	3 6 0	0 14 6	..	17 3 7	..	..	..
(*b*) Carriage of tents and records	885 7 6	51 14 1	85 14 1	86 15 11	314 0 10	29 6 0	59 12 0	131 3 6
(*c*) Rents, rates and taxes	933 6 2	..	..	420 0 0	8 6 5	180 0 0	..	48 0 0
(*d*) Pay of police guards	..	..	..	..	..	..	..	..
(*e*) Official postage	800 9 6	106 13 0	296 11 6	422 5 6	600 12 0	327 10 6	94 4 0	309 7 6
(*f*) Sundries	1,712 11 7	181 8 8	767 6 9	616 0 8	873 11 7	200 7 11	39 15 9	538 15 1
Total, B.—Establishments	67,995 4 3	6,469 8 1	21,842 14 1	24,173 6 6	30,622 5 6	16,275 5 8	2,873 3 8	20,443 11 5
Grand Total of expenditure	70,255 1 3	12,665 7 7	47,435 1 5	49,076 15 5	53,394 12 5	30,748 7 9	7,430 15 10	30,288 5 7

Budget heads.	Coimbatore,(South).	Madura.	Tinnevelly.	Wynaad and Pálghat.	Nilambúr.	South Canara.	Total.
10	11	12	13	14	15	16
B.—*Establishments.*	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Brought forward—Total, A.—Conservancy and Works.	20,252 0 7	13,500 0 3	18,589 12 9	23,451 1 4	31,836 9 9	15,776 13 1	2,34,005 13 10
I. Salaries—							
(*a*) Conservators	..	..	..	..	..	..	16,250 0 0
(*b*) Superior officers	5,538 11 4	7,091 10 8	4,338 11 4	7,464 8 3	5,400 0 0	3,738 11 5	89,625 10 9
(*c*) Subordinate forest and depôt establishments.	8,039 10 8	6,990 7 4	6,609 8 6	6,823 5 8	2,128 10 0	4,123 2 4	83,991 3 1
(*d*) Office establishments	1,900 8 7	1,404 4 11	1,830 15 1	2,502 8 5	1,101 8 2	1,336 10 9	35,489 8 11
(*e*) Deputation and special allowances	..	1,200 0 0	..	1,134 2 8	1,200 0 0	..	5,275 1 6
II. Travelling allowances—							
(*a*) Conservators	..	..	..	..	..	..	3,421 13 10
(*b*) Superior officers	1,506 10 10	2,098 1 0	1,440 0 0	1,749 15 3	1,648 8 9	1,440 0 0	21,683 9 5
(*c*) Subordinate forest and depôt establishments.	2,303 4 7	1,524 7 1	1,595 7 8	2,746 13 2	622 15 3	2,181 11 0	23,215 7 3
(*d*) Office establishment	263 3 5	389 14 9	449 5 10	548 0 8	76 14 0	168 9 0	5,250 11 1
III. Contingencies—							
(*a*) Stationery	3 12 0	..	0 2 0	2 10 0	..	0 9 0	57 6 8
(*b*) Carriage of tents and records	135 13 3	118 10 6	123 0 9	93 6 0	..	283 14 1	2,349 6 6
(*c*) Rents, rates and taxes	..	2 0 0	..	300 0 0	..	..	1,891 12 7
(*d*) Pay of police guards	..	..	..	..	..	..	..
(*e*) Official postage	225 2 6	360 11 6	378 2 6	252 1 0	59 0 0	476 6 0	4,710 1 0
(*f*) Sundries	431 2 5	315 11 3	639 14 0	570 7 2	105 1 9	403 7 1	7,396 9 8
Total, B.—Establishments	20,377 15 7	21,495 15 0	17,405 3 8	24,187 14 3	12,342 9 11	14,103 0 8	3,00,608 6 3
Grand Total of expenditure	40,630 0 2	34,995 11 5	35,995 0 5	47,638 15 7	44,179 3 8	29,879 13 9	5,34,614 4 1

Madras, 1st July 1886.

(Signed) G. HOMFRAY, Acting Examiner of Forest Accounts.

ANNUAL FORM No. 65.

Forest Department, Madras, Southern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1885-86.

District.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Conservator's office, Southern Division ..	..	6,551 5 9	6,551 5 9	..	6,703 12 5	6,703 12 5	152 6 8	..	
Three-fifths of the office of Examiner of Forest Accounts	..	2,311 10 3	2,311 10 3	..	2,358 1 6	2,358 1 6	46 7 3	..	
Forest Settlement office, Salem	..	..	..	..	..	..	..	..	
Do. do. Wynaad	..	..	..	..	..	..	..	..	
Do. do. Chingleput and Tinnevelly ..	..	..	..	..	..	..	..	..	
Chingleput	..	6,824 12 9	6,824 12 9	715 6 5	7,603 13 2	8,319 3 7	1,494 6 10	..	
North Arcot	..	9,378 13 7	9,378 13 7	304 5 8	9,482 13 7	9,787 3 3	408 5 8	..	
South Arcot	..	33,699 5 7	33,699 5 7	..	33,699 5 7	33,699 5 7	..	..	
Salem	..	34,294 11 4	34,294 11 4	1,519 6 6	34,175 2 6	35,694 9 0	1,399 13 8	..	
Trichinopoly	..	20,142 4 9	20,142 4 9	11 15 2	20,894 12 9	20,906 11 11	764 7 2	..	
Tanjore	..	5,927 6 4	5,927 6 4	20 0 0	5,950 0 0	5,970 0 0	42 9 8	..	
Coimbatore (North)	..	18,843 9 6	18,843 9 6	1,875 14 5	19,906 7 5	21,782 5 10	2,938 12 4	..	
Do. (South)	..	29,119 11 10	29,119 11 10	1,838 12 7	28,925 8 1	30,764 4 8	1,644 8 10	..	
Madura	..	13,989 2 3	13,989 2 3	538 0 1	15,640 11 6	16,178 11 7	2,189 9 4	..	
Tinnevelly	..	15,089 0 7	15,089 0 7	758 11 9	15,448 0 8	16,206 12 5	1,117 11 10	..	
Wynaad and Pálghat	..	33,132 7 2	33,132 7 2	1,350 5 0	32,948 13 2	34,299 2 2	1,166 11 0	..	
Nilambúr	..	15,109 1 4	15,109 1 4	868 5 6	14,663 3 1	15,531 8 7	422 7 3	..	
South Canara	..	21,340 13 4	21,340 13 4	8,224 8 5	25,719 15 10	33,944 8 3	12,603 10 11	..	
Total ..	..	2,65,754 4 4	2,65,754 4 4	18,025 11 6	2,74,120 9 3	2,92,146 4 9	26,392 0 5	..	

MADRAS,
3rd July 1886.

(Signed) G. HOMFRAY,
Ag. Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Southern Circle.

Revenue received and outstandings on account of revenue during 1885-86.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Chingleput	Timber and other produce, &c. ..	..	19,723 0 3	19,723 0 3	19,723 0 3	..
North Arcot ..	Do. ..	..	1,05,160 6 2	1,05,160 6 2	1,02,998 14 2	2,161 8 0
South Arcot ..	Do. ..	26 12 0	36,273 12 9	36,300 8 9	36,300 8 9	..
Salem	Do. ..	..	1,23,196 15 11	1,23,196 15 11	1,23,196 15 11	..
Trichinopoly ..	Do. ..	..	32,881 5 9	32,881 5 9	31,989 9 9	891 12 0
Tanjore	Do. ..	..	7,322 9 8	7,322 9 8	7,322 9 8	..
Madura	Do. ..	0 1 0	37,870 8 4	37,870 9 4	37,870 9 4	..
Tinnevelly	Do. ..	618 9 2	40,951 5 6	41,569 14 8	40,118 10 8	1,451 4 0
Coimbatore (North).	Do. ..	26,135 5 10	41,171 13 7	67,307 3 5	46,331 0 4	20,976 3 1
Coimbatore (South).	Do. ..	3,270 4 3	44,221 4 2	47,491 8 5	45,049 6 3	2,442 2 2
Wynaad and Pálghat	Do. ..	..	39,534 13 5	39,534 13 5	39,534 13 5	..
Nilambúr	Do. ..	..	86,518 1 9	86,518 1 9	81,140 2 11	5,377 14 10
South Canara ..	Do. ..	..	40,647 12 8	40,647 12 8	40,647 12 8	..
Direction	Do. ..	..	93 10 0	93 10 0	93 10 0	..
	Total ..	30,051 0 3	6,55,567 7 11	6,85,618 8 2	6,52,317 12 1	33,300 12 1

ANNUAL FORM No. 67.

Forest Department, Madras, Southern Circle.

Financial results of the year 1885-86.

District.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY.		OTHER REVENUE.		FORMATION, PROTECTION AND IMPROVEMENT OF FORESTS.	TOTAL.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction	..	16,917	94	40,620	12,717	94	70,254
Chingleput	5,306	3,293	14,417	5,128	4,243	19,723	12,664
North Arcot	16,569	6,257	86,430	23,836	17,341	1,02,999	47,434
South Arcot	8,608	8,140	27,692	15,469	25,464	36,300	49,073
Salem	11,097	4,776	1,12,100	36,185	12,432	1,23,197	53,393
Trichinopoly	12,075	10,077	19,914	13,114	7,556	31,989	30,747
Tanjore	..	..	7,323	2,106	5,324	7,323	7,430
Coimbatore (North)	2,015	974	44,316	24,797	4,516	46,331	30,287
Coimbatore (South)	10,530	10,619	34,520	22,292	7,738	45,050	40,649
Madura	1,817	2,099	36,053	23,089	9,806	37,870	34,994
Tinnevelly	2,136	4,218	37,983	21,548	10,230	40,119	35,996
Malabar (Wynaad and Pálghat) ..	34,685	35,462	4,850	3,752	8,423	39,535	47,637
Malabar (Nilambúr)	80,147	37,471	993	151	6,556	81,140	44,178
South Canara	12,210	13,346	28,438	13,925	2,607	40,648	29,878
Total ..	1,97,195	1,53,649	4,55,123	2,46,012	1,34,953	6,52,318	5,34,614

Annual Form No. 68.

Forest Department, Madras, Southern Circle.

Trees felled by Government agency during the year 1885-86.

(Selection Fellings.)

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
Chingleput ..	Kámbákam hills ..	Tamba posts	..	1,600	1,600	Converted into logs ..	1,600	1,600	..	Outturn .. 50 tons.
	Maiyúr plantation ..	Casuarina wood	..	3,500	3,500	Do. do. ..	3,500	3,500	..	Do. .. 400 ,,
		Total ..	..	5,100	5,100	....	5,100	5,100	..	450
North Arcot ..	Chandragiri	Red wood	..	3	3	Converted into logs ..	3	3	..	Outturn .. 3 posts.
		Casuarina poles	..	22	22	Do. do. ..	22	22	..	Do. .. 22 poles.
		Total ..	..	25	25	....	25	25	..	25
South Arcot ..	No. I range—Tiruvannámalai, Chengam circle.	Namai	..	768	768	Converted into logs ..	768	768	..	Outturn .. 780 logs.
		Selai	..	67	67	Do. do. ..	67	67	..	Do. .. 93 ,,
		Véngai	..	154	154	Do. do. ..	154	154	..	Do. .. 177 ,,
		Kalimarutai	..	24	24	Do. do. ..	24	24	..	Do. .. 37 ,,
		Kalturinji	..	38	38	Do. do. ..	38	38	..	Do. .. 59 ,,
		Iruvadi	..	40	40	Do. do. ..	40	40	..	Do. .. 43 ,,
		Karungali	..	88	88	Do. do. ..	88	88	..	Do. .. 89 ,,
		Satin	..	15	15	Do. do. ..	15	15	..	Do. .. 20 ,,
		Nim	..	14	14	Do. do. ..	14	14	..	Do. .. 22 ,,
		Kadukoi	..	11	11	Do. do. ..	11	11	..	Do. .. 11 ,,
		Achá	..	2	2	Do. do. ..	2	2.	..	Do. .. 2 ,,
			..	1,221	1,221	....	1,221	1,221	..	1,333
	No. I range—Tiruvannámalai, Chokkadi circle.	Parambai	..	29	29	Converted into logs ..	29	29	..	Outturn .. 27 logs.
		Karungáli	..	229	229	Do. do. ..	229	229	..	Do. .. 260 ,,
		Vémbu	..	12	12	Do. do. ..	12	12	..	Do. .. 23 ,,
		Namai	..	36	36	Do. do. ..	36	36	..	Do. .. 36 ,,
		Satin	..	2	2	Do. do. ..	2	2	..	Do. .. 4 ,,
		Selai	..	2	2	Do. do. ..	2	2	..	Do. .. 2 ,,
		Jalari	..	13	13	Do. do. ..	13	13	..	Do. .. 13 ,,
		Iruvadi	..	12	12	Do. do. ..	12	12	..	Do. .. 35 ,,
		Achá	..	1	1	Do. do. ..	1	1	..	Do. .. 4 ,,
		Kalimarudai	..	5	5	Do. do. ..	5	5	..	Do. .. 13 ,,
		Véngai	..	84	84	Do. do. ..	84	84	..	Do. .. 269 ,,
			..	425	425	....	425	425	..	686

Trees felled by Government agency during the year 1885-86—*continued.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
South Arcot—*cont.*	No. I range—Tiruvannámalai.	Sandalwood	..	40	40	Converted into logs ..	40	40	..	Outturn .. 40 weighing 1,680 lb.
		Total ..	..	1,686	1,686	....	1,686	1,686	..	2,059
Salem	Salem—Tirupatúr, Dharmapuri and Hosúr.	Véngai	..	24	24	Converted into logs ..	24	24	..	Outturn .. 78½ c. ft.
		Junglewood	..	80	80	Do. do. ..	80	80	..	Do. .. 86⅝ „
		Miscellaneous timber ..	..	1,296	1,296	Do. do. ..	1,296	1,296	..	Do. .. 1,909 „
		Total ..	..	1,400	1,400	....	1,400	1,400	..	2,074½
		Bamboos	Not specified.							Outturn .. 1,680 lb.
		Sandalwood	Not specified.							Do. .. 9 tons, 2,199 lb.
Trichinopoly ..	Kulitalai	Casuarina	..	55	55	....	55	55	..	
		Véngai	..	1	1	....	1	1	..	
		Tamarind (dead)	..	1	1	....	1	1	..	
		Babul	..	28	28	....	28	28	..	
		Casuarina poles	..	195	195	....	195	195	..	
		Total ..	..	280	280	....	280	280	..	
Coimbatore (North).	Kollegál	Teak	..	9	9	Converted into logs ..	9	9	..	Outturn .. 4½ c. ft.
Coimbatore (South).	Túnakadavu	Teak	..	85	85	Converted into logs ..	85	85	..	Outturn .. 292 logs.
Madura	....	....	..	..	..	....	..	..	..	
Tinnevelly ..	Pápanásam hill ..	Palavadaithan	..	1	1	Each converted into six logs.	42	42	..	Utilized for specimens.
		Vedipila	..	1	1					
		Nangu	..	1	1					
		Venkongu	..	1	1					
		Shembugampatai	..	1	1					
		Vekkali	..	1	1					
		Vymarai	..	1	1					
		Total ..	..	7	7	....	42	42	..	

Trees felled by Government agency during the year 1885-86—*continued.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
Malabar	Wynaad—Chedlet, Kudrakót and Padri.	Teak	..	1,396	1,396	Converted into logs ..	1,396	1,396	..	
		Blackwood	..	5	5	Do. do. ..	5	5	..	
		Véngai	..	14	14	Do. do. ..	14	14	..	
		Miscellaneous	..	8	8	Do. do. ..	8	8	..	
			..	1,423	1,423	....	1,423	1,423	..	
	Pálghat—Chenat Nair and Walluvanád forests.	Blackwood	..	1	1	....	1	1	..	
		Véngai	..	22	22	....	22	22	..	
		Irumbogam	..	1	1	....	1	1	..	
		Miscellaneous	..	86	86	....	86	86	..	
			..	110	110	....	110	110	..	
		Total ..	..	1,533	1,533	....	1,533	1,533	..	
Malabar (Nilamúr).	Nellikutta	Teak	350	..	350	Converted into logs ..	301	350	..	Outturn .. 361 logs.
						Rejected	49			
		Blackwood	13	..	13	Converted into logs ..	13	13	..	Do. .. 16 ,,
		Véngai	120	..	120	Do. do. ..	112	120	..	Do. .. 112 ,,
						Rejected	8			
		Miscellaneous	538	..	538	Converted into logs ..	500	538	..	Do. .. 500 ,,
						Rejected	38			
		Total ..	1,021	..	1,021	Converted into logs ..	926	1,021	..	929
						Rejected	95			
	Panangód	Teak	..	223	223	....	..	223	..	Recently felled and not yet collected or measured up.
		Blackwood	..	2	2	....	..	2	..	
		Miscellaneous	..	124	124	....	..	124	..	
			..	349	349	....	..	349	..	
		Total ..	1,021	349	1,370	Converted into logs ..	* 926	1,021	349	* Outturn .. 929 logs.
						Rejected	95			
South Canara ..	Cundapúr	Blackwood	..	17	17	Converted into logs ..	16	16	1	
		Benteak	..	1	1	Do. do. ..	1	1	..	
		Do.	..	49	49	Do. do. ..	46	46	3	

Trees felled by Government agency during the year 1885-86—*continued.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
South Canara—*continued.*	Cundapúr—*cont.* ..	Wild jack	..	3	3	Converted into logs ..	2	2	1	
		Banapu	..	86	86	Do. do. ..	86	86	..	
		Miscellaneous	..	74	74	Do. do. ..	74	74	..	
	Uppinangádi ...	Blackwood	..	54	54	Do. do. ..	37	37	17	
		Benteak	..	110	110	Do. do. ..	51	51	59	
		Banapu	..	196	196	Do. do. ..	167	167	29	
		Wild jack	..	3	3	Do. do. ..	..	..	3	
		Miscellaneous	..	114	114	Do. do. ..	73	73	41	
		Total ..	..	707	707	....	553	553	154	
	Grand Total ..	Teak	350	1,873	2,223	Converted into logs ..	2,112	2,112	62	
						Rejected	49	49		
		Rosewood	13	79	92	Converted into logs ..	74	74	18	
		Véngai	120	299	419	Do. do. ..	411	411	..	
						Rejected	8	8		
		Red sanders	..	3	3	Converted into logs ..	3	3	..	
		Miscellaneous timbers ..	— 538	8,887	9,425	Do. do. ..	9,313	9,313	74	
						Rejected	38	38		

ANNUAL FORM No. 69.

Forest Department, Madras, Southern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86.

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Chingleput.	Satiyavédu	Red sanders roots ..	..	..	Tons. 153½	..	Tons. 153½	..	Sold	Tons. 153½	..	..	..
		Tamba posts ..	..	..	50	..	50	..	Do.	50	..	..	..
	Chingleput (Maiyúr)	Casuarina wood ..	..	..	400	..	400	..	Do.	400	..	..	..
			..	..	603½	..	603½	..		603½	..	..	..
North Arcot.	Chandragiri ..	Redwood	..	..	121	4,840	121	4,840	Removed to sale depôt.	Tons. 121	4,840	..	..
		Do.	..	..	Posts. 3	..	Posts. 3	..	Sold	Posts. 3	..	..	..
		Do.	..	..	A heap of small.		..	..	Do.	..	..	..	..
		Tamarind fruits ..	..	..	Ton. 1	..	Ton. 1	..	Do.	Ton. 1	..	..	..
		Casuarina poles ..	..	..	No. 22	..	No. 22	..	Do.	No. 22	..	..	..
	Vellore ..	Sandal-wood ..	..	..	Tons. lb. 11 812	..	Tons. lb. 11 812	..	Removed to sale depôt	Tons. lb. 11 812	..	..	..
		Wood-apple ..	..	..	Certain quantity.				Sold	..	..	..	..
	Head-quarter.	Casuarina-wood ..	..	..	1,435 898	..	1,435 898	..	Removed to sale depôt.	224 525	..	Tons. lb. 443 1,120	..
									Sold to Madras Railway Company.	461 1,493			
									Supplied to Morison and Sons.	306 0			
		Casuarina branch wood	..	..	521 560	..	521 560	..	Supplied to Morison and Sons.	133 0	..	216 1,120	..
									Sold	171 1,680			
			..	..	1,956 1,458	..	1,956 1,458	..		1,296 1,458	..	660 0	..
		Casuarina plants ..	..	..	No. 4,500	..	No. 4,500	..	Sold	No. 4,500	..	..	..
		Do. seed ..	..	..	lb. 50	..	lb. 50	..	Do.	lb. 50	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86.—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot.	No. I Range..	Véngai	..	..	521	1,393	521	1,393	Sold	109	383	55	300
									Removed to Tiruvannámalai depôt.	340	697		
									Removed to Tindivanam depôt.	2	4		
									Used by department.	15	9		
		Miscellaneous timbers.	1,104	2,224	1,553	4,691	2,657	6,915	Sold	1,401	3,470	..	..
									Removed to Tiruvannámalai depôt.	1,111	2,957		
									Removed to Tindivanam depôt.	58	168	78	303
									Used by department.	9	17		
	Other Ranges.	Miscellaneous timbers.	..	..	2	256	2	256	Sold	2	256		..
		Casuarina poles ..	..	..	1,090	1,733	1,090	1,733	Sold	1,090	1,733	..	..
		Total, Timbers ..	1,104	2,224	3,166	8,073	4,270	10,297	..	4,137	9,694	133	603
		Firewood.			Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
	All the Ranges.	Casuarina	..	..	603	1,127	603	1,127	Sold	507	2,191	95	1,176
		Do. roots ..	..	..	12	973	12	973	Do.	12	973	..	..
		Bábúl	..	..	202	1,120	202	1,120	Do.	202	1,120	..	..
		Kandan	..	..	101	1,638	101	1,638	Do.	101	1,638	..	..
					No.		No.			No.			
		Casuarina sticks ..	..	..	1,054	..	1,054	..	Do.	1,054	..	..	..
		Total, Firewood ..	..	..	Tons. 920	378	Tons. 920	378		Tons. 824	1,442	95	1,176
	Tiruvannámalai.				Tons.		Tons.		Sold	1	560	..	..
									Transferred to headquarter office.	..	44		
		Sandalwood ..	..	..	† 2	320½	2	320½	Transferred to No. IV Range office.	..	26		
									Transferred to Tiruvannámalai.	..	1,930½		
		Do. roots ..	..	..	† ..	56	..	56	Transferred to Tiruvannámalai.	..	56	..	..
		Total ..	..	..	2	376½	2	376½	....	2	376½	..	..

* The District Forest-officer showed an opening balance of 310 cubic feet of Véngai and 604 cubic feet of miscellaneous timbers which were omitted in the closing balance of 1884-85. The quantities have now been included in the collections of 1885-86, in order to make the opening balance correspond with the closing balance of 1884-85.

† The District Forest-officer showed this as the opening balance of the year, while the closing balance of 1884-85 was *nil*. The quantity has therefore been treated as the collection of the year under report.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot—*continued.*	All the Ranges				Tons.	lb.	Tons.	lb.		Tons.	lb.		
		Gallnuts	..	..	2	420	2	420	Sold	2	420	..	..
									Do.	..	1	..	..
		Honey	..	..	..	211⅜	..	211⅜	Taken to Tiruvannámalai.	..	203⅜	..	..
									Taken to Head-quarter office.	..	7	..	..
		Nánal grass.. ..	..	..	3	..	3	..	Sold	3	..	..	..
		Belgam walnuts ..	..	..	..	4	..	4	Do.	..	4	..	..
		Tamarind fruits ..	..	..	..	330	..	330	Do.	..	330	..	..
		Velvélam bark ..	..	..	1	359⅛	1	359⅛	Do.	1	359⅛	..	..
			..	..	6	1,324¼	6	1,324¼	Do.	6	1,324¼	..	..
					No.		No.			No.			
		Cocoanut leaves ..	..	..	400	..	400	..	Sold	400	..	..	..
		Silk cotton pods ..	..	..	10,550	..	10,550	..	Do.	10,550	..	..	..
					lb.		lb.			lb.			
		Fire sticks	..	..	224	..	224	..	Do.	224	..	..	..
Salem.	Salem, Atúr, Námakal, Tiruchengód, Uttankarai, Tirupatúr, Krishnagiri, Dharmapuri and Hosúr.				No.	C. ft.	No.	C. ft.		No.	C. ft.		
		Véngai	..	..	24	78⅓	24	78⅓	Removed to sale depôt.	24	78⅓	..	..
		Junglewood.. ..	..	..	80	86⅔	80	86⅔	Do. ..	80	86⅔	..	..
		Miscellaneous timbers	..	..	1,296	1,909	1,296	1,909	Do. ..	1,296	1,909	..	..
			..	..	1,400	2,074⅓	1,400	2,074⅓	....	1,400	2,074⅓	..	..
		Bamboos	..	..	..	lb. 1,680	..	lb. 1,680	Removed to sale depôt.	..	lb. 1,680	..	..
		Sandalwood	..	..	Tons. 9	lb. 2,199	Tons. 9	lb. 2,199	Do. ..	Tons. 9	lb. 2,199	..	..
		Honey	..	..	..	32	..	32	Do. ..	..	32	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Trichinopoly.	Kulitalai and Udayárpálaiyam.				No.		No.			No.			
		Casuarina poles ..	..	..	195	..	195	..	Sold	195	..	..	..
		Do. trees ..	..	..	55	..	55	..	Do.	55	..	..	..
		Véngai	..	..	1	..	1	..	Do.	1	..	..	..
		Tamarind tree (dead)	..	..	1	..	1	..	Do.	1	..	..	..
		Bábúl trees	..	..	28	..	28	..	Sold to South Indian Railway Company.	28	..	..	..
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
		Firewood	401	2,182	3,205	551	3,607	493	Removed to Trichinopoly depôt.	285	531	138	1,995
									Removed to Tiruvádi depôt.	321	1,568		
									Kumbakónam ..	626	2,128		
									Sold to South Indian Railway.	1,735	1,887		
									Sold in retail ..	498	1,344		
	Musiri ..				No.		No.			No.			
		Bamboos	..	..	515	..	515	..	Sold	515	..	..	..
			Ton.	lb.	Tons.	lb.	Tons.	lb.		Ton.	lb.	Tons.	lb.
		Gallnuts	* 1	1,820	2	160	3	1,980	Sold	1	1,820	2	160
		Kapilapodi	..	35	..	..	..	.35	Do.	..	35	..	..
			1	1,855	2	160	3	2,015	....	1	1,855	2	160
Coimbatore (North).	Kollegál ..	Teak	..	..	9	40½	9	40½	Removed to sale depôt.	9	40½	..	..
		Do. saplings ..	..	..	26	..	26	..	Do. ..	26	..	..	..
		Miscellaneous timbers saplings.	..	..	6	..	6	..	Do. ..	6	..	..	..
	Satyamangalam.					lb.		lb.			lb.		
		Sandalwood ..	..	..	..	1,995	..	1,995	Do.	..	1,995	..	..

* Not shown in the closing balance of 1884-85, and the omission is stated by the District Forest-officer to be due to oversight.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Coimbatore (South).	Túnakadavu	Teak	..	..	292	1,1491	292	11,491	Removed to Wálayár depôt.	134	4,159	158	7,332
		Do.	..	..	..	298	..	298	Used departmentally.	..	298	..	..
		Jungle-wood	..	..	5	167	5	167	Removed to sale depôt.	5	167	..	..
		Do.	..	..	..	158	..	158	Used departmentally.	..	158	..	..
	Bólampatty	Black-wood	2	$67\frac{2}{3}$	..	..	2	$67\frac{2}{3}$	Sold	2	$67\frac{2}{3}$	..	..
		Jungle-wood	2	$113\frac{3}{4}$	..	..	2	$113\frac{3}{4}$	Do.	2	$113\frac{3}{4}$	..	..
	Shólakarai	Do.	..	..	771	..	771	..	Do.	771	..	..	..
		Teak posts	..	..	331	..	331	..	Do.	331	..	..	..
						Tons		Tons.			Tons		
		Fire-wood	..	..	..	471	..	471	Do.	..	471	..	..
		Bamboos	..	..	2,000	..	2,000	..	Do.	2,000	..	..	..
						lb.		lb.			lb.		
	Tunakadavu	Cardamom	..	..	..	504	..	504	Do.	..	504	..	..
		Pepper	..	..	..	560	..	560	Do.	..	560	..	..
		Wax	..	..	..	364	..	364	Do.	..	364	..	..
		Deer horns	..	..	4	..	4	..	Do.	4	..	..	..
		Rattans	..	..	11,245	..	11,245	..	Do.	11,245	..	..	..
		Mattipál	..	..	..	$3\frac{9}{16}$	..	$3\frac{9}{16}$	Do.	..	$3\frac{9}{16}$	..	..
					Tons.	lb.	Tons	lb.		Tons.	lb.		
		Dammer	..	..	4	28	4	28	Do.	4	28	..	..
		Turmeric	..	..	..	588		588	Do.	..	588	..	..
Madura.	No. I Range—Vannáttipárai—Pámbár	Véngai	..	..	..	120	..	120	Sold	..	120	..	..
		Do.	..	..	..	80	..	80	Do.	..	80	..	..
		Jungle-wood	..	..	..	91	..	91	Do.	..	91	..	..
					Tons	lb.	Tons	lb.		Tons	lb.		
	No. II Range—Kodaikánal	Rafters	..	..	2	1,162	2	1,162	Removed to sale depôt.	2	1,162	..	..
		Fire-wood	..	..	215	1,105	215	1,105	Do.	213	1,105	..	..
									Sold	2	..	..	..
	No. V Range—Kadavúr	Do.	..	..	90	1,988	90	1,988	Do.	90	1,988	..	..
		Total	..	..	306	853	306	853	..	306	853	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of	Number.	Cubic feet.	Number.	Cubic feet.
Madura—*cont.*	Vanáttipárai..	Gallnuts	..	..	Tons. 3	lb. 48	Tons. 3	lb. 48	Sold...	Tons. 3	lb. 48	..	..
		Shiyakoi	..	..	..	480	..	480	Do.	..	480	..	..
		Cardamoms.. ..	..	..	..	9	..	9	Do.	..	9	..	..
		Total..	..	..	3	537	3	537	..	3	537	..	..
Tinnevelly	Pápanásam and Ambásamudram.	Miscellaneous ..	7	65	2,737	2,837	2,744	2902	Sold..	730	753	902	664
									Used for bridge-work	5	38		
									Removed to sale depôt.	1,107	1,447		
										1,842	2,238		
		Planks	..	..	204	278	204	278	Used for bridge-work	128	159	..	..
									Removed to depôt.	76	119		
										204	278		
		Spokes	..	..	Pieces. 2,220	231	Peces. 2,220	231	Sold..	Pieces. 2,136	223	pieces. 84	8
		Total..	7	65	5,161	3,346	5,168	3,411	..	4,182	2,739	986	672
		Bamboos	..	..	Ton. 1	lb. 1,120	Ton. 1	lb. 1,120	Sold	Ton. 1	lb. 1,120	..	..
		Tánikai	..	..	14	804	14	804	Taken to sale depôt..	14	804	..	..
		Seedlings	..	..	No. 1,505	..	No. 1,505	..	Sold..	No. 1,505	..	..	..
Malabar (Wynaad and Pálghat.	Wynaad, Chedleth; Kudrakót and Padri	Teak	..	20,610	..	58,281	..	78,891	Sold..	..	47,870	..	30,730
									Used departmentally	..	291		
		Blackwood	..	1,142	..	5,051	..	6,193	Sold..	..	4,935	..	1,258
		Véngai	..	1,362	..	445	..	1,807	Do.	..	803	..	52
									Deficiency in measurement,	..	952		
		Miscellaneous ..	..	542	..	264	..	806	Used departmentally and written off.	..	806	..	..
			..	23,656	..	64,041	..	87,697	..	..	55,657	..	32,040
	Pálghat, Wálayár reserved and Walawanád forests.	Blackwood	..	..	1	16	1	16	Sold..	1	16	..	..
		Vengai	2	147	35	665	37	812	Do.	35	665	2	147
		Irumbógam.. ..	..	..	5	255	5	255	Do.	5	255	..	..
		Miscellaneous ..	..	..	154	5,631	154	5,631	Do.	138	5,000	..	..
									Used departmentaly.	16	631		
			2	147	195	6,567	197	6,714	..	195	6,567	2	147

Statement of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Malabar, (Wynaad and Pálghat)—*cont.*	Pálghat, Wálayár reserved and Waawanád forests—*cont.*	Teak pieces	..	..	6,256	..	6,256	..	Sold	5,736	..	520	..
		Do. poles	..	..	1,876	..	1,876	..	Do.	1,526	..	350	..
					Tons.		Tons.			Tons.			
		Firewood	..	..	3,230	..	3,230	..	Do.	3,230	..	..	..
					No.		No.			No.		No.	
		Bamboos	..	..	23,067	..	23,067	..	Do.	3,090	..	19,977	..
			lb.		lb.		lb.			lb.		lb.	
	Wynaad, Chedleth, Kudrakôt and Padri.	Dammer	64	..	..	..	64	..	Used departmentally.	64	..	..	..
		Wax	51	..	63	..	114	..	Do. do.	59	..	55	..
		Honey	4	..	135	..	139	..	Sold	134	..	..	..
									Wastage	5			
		Cardamoms ..	..	..	304	..	304	..	Sold	304	..	..	..
					Nc.		No.			No.			
		Bamboos	..	..	13,390	..	13,390	..	Do.	13,390	..	..	..
Malabar (Nilambúr)	Nellikutta ..	Teak	..	..	301	12,774	301	12,774	Removed to sale depôt.	301	12,774	..	..
		Blackwood ..	..	..	16	663	16	663	Do. do.	16	663	..	..
		Véngai	..	..	112	6,968	112	6,968	Do. do.	112	6,968	..	..
		Miscellaneous ..	..	..	500	29,324	500	29,324	Do. do.	500	29,324	..	..
		Total ..	..	..	929	49,729	929	49,729		929	49,729	..	..
	Panangode ..	Teak	..	..	880	..	880	..	Removed to sale depôt.	880	.. *	..	..
		Black wood ..	..	..	38	..	38	..	Do. do.	38	.. *		
		Miscellaneous ..	..	..	1,672	..	1,672	..	Do. do.	1,672	..		
			..	..	2,590	..	2,590	..		2,590	..	..	..
		Teak saplings ..	† 9,243	..	51,504	..	60,747	..	Removed to sale depôt	53,641	..	7,106	..
					Tons lb.		Tons. lb.			Tons.	lb.		
		Firewood used for rafting rafts.	..	..	11 1,120	..	11 1,120	..	Do. do.	11	1,120	..	..
		Bamboos used for rafting rafts.	..	..	25,256	..	25,256	..	Do. do.	20,170	..	..	..
									Lost in transit ..	704			
									Damaged and rejected.	2,018			
									Used for building and fencing.	1,932			
									Sold	432			

* These logs have not been measured up.

† This is the correct opening balance as per Examiner's account.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Canara.	Candapúr Uppinangádi and Udipi.	Blackwood	69	..	43	..	112	1,940	Delivered as being cut in kumaki.	1	17	111	1,923
		Teak	4	74¼	92	483¾	96	558	Sold	87	359	8	179
									Removed to sale depôt.	1	20		
		Banapu	141	..	103	..	244	6,448	Sold	17	386½	227	6,061½
		Miscellaneous ..	136	..	183	..	319	9,214	Do.	1	32½	318	9,181¼
		Do.	50	1,627	1	..	51	1,623¼	Reduction in measurement.	..	98¼	51	1,525
		Blackwood	25	..	14	..	39	643	Removed to sale depôt.	2	22½	37	620¼
		Wild jack	1	..	..	..	1	18¼	Do. do. ..	1	18¼	..	..
		Banapu	177	..	34	..	211	4,433	Do. do. ..	58	1,277	153	3,156
		Miscellaneous ..	87	..	53	..	140	3,480	Do. do. ..	41	1,051¼	99	2,428¾
		Teak poles	..	..	263	345	263	345	Sold	80	..	183	345
		Teak logs	..	..	8	..	8	..	Do.	8	..	..	..
		Jack	..	..	5	30	5	30	Do.	5	30	..	..
		Junglewood	..	..	11	54¾	11	54¾	Do.	11	54¾	..	..
			690	1,701¼	810	912¾	1,500	28,787¼	..	313	3,367¼	1,187	25,420
		Firewood	..	..	Tons 32½		Tons 32½		Sold	Tons 32½		..	..
					Tons.	lbs.	Tons.	lbs.		Tons.	lbs.		
		Cinnamon flowers ..	..	..	16	1,353½	16	1,353½	Sold	16	1,353½	..	..
		Shiyakoi	..	..	9	1,618½	9	1,618½	Do.	9	1,618½	..	..
		Wax	..	..	..	1,089½	..	1,089½	Do.	..	1,089½	..	..
		Honey	..	..	2	179	2	179	Do.	2	179	..	..
		Myrabolams ..	..	..	4	345	4	345	Do.	4	345	..	..
		Pepper	..	..	..	503	..	503	Do.	..	503	..	..
		Belaric Myrabolams.	..	..	7	1,103	7	1,103	Do.	7	1,103	..	..
		Deer horns	..	..	..	174	..	174	Do.	..	174	..	..
		Nux-vomica	..	..	..	1,509	..	1,509	Do.	..	1,509	..	..
		Rampatri	..	..	..	132½	..	132½	Do.	..	132½	..	..
		Honne fruits ..	..	..	..	1,596	..	1,596	Do	..	1,596	..	..
		Ramgotu	..	..	..	368	..	368	Do.	..	368	..	..
		Dhúp	..	..	..	14	..	14	Do.	..	14	..	..
		Myrabolams ..	..	..	45	..	45	..	Do.	45	..	..	..
			..	..	87	1,025	87	1,025	..	87	1,025	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
						Grand Total.							
		Teak	..	20,684¼	..	83,713¼	..	104,397½	Sold	..	48,229	..	38,586
									Removed to sale depôt.		16,993½		
									Otherwise disposed of.	..	589		
		Rosewood	..	1,209⅔	..	5,730	..	6,939⅔	Sold	..	5,018⅔	..	1,258
									Removed to sale depôt.	..	663		
		Véngai	..	1,509	..	9,749⅓	..	11,258⅓	Sold	..	2,051	..	499
									Removed to sale depôt.	..	7,747⅓		
									Otherwise disposed of.	..	961		
						Tons.		Tons.			Tons.		
		Red sanders	..	..	..	274⅓	..	274⅓	Sold	..	153⅓	..	..
									Removed to sale depôt.	..	,, 121		
						C. ft.		C. ft.			C. ft.		
		Miscellaneous timber.	..	4,571¾	..	71,586 1/12	..	76,157⅝	Sold	..	12,398	..	23,328
									Removed to sale depôt.	..	,, 38,525⅓		
									Otherwise disposed of.	..	,, 1,909 5/12		
					Tons.	lb.	Tons.	lb.		Ton.	lb.		
		Sandalwood ..	..	..	24	902½	24	902½	Sold	1	560	..	..
									Removed to sale depôt.	23	342½		
			Tons.	lb.								Tons.	lb.
		Fuel	401	2,182	10,133	1,000	10,535	942	Sold	5,321	854	894	931
									Removed to sale depôt.	1,683	257		
									Otherwise disposed of.	2,636	1,140		
					No.		No.			No.		No.	
		Bamboos	..	..	64,228	..	64,228	..	Sold	24,081	..	19,977	..
									Removed to depôt..	,, 20,170			
			Ton.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
		Minor produce ..	1	1,974	68	854	70	588	Sold	53	1,439	2	215
									Removed to depôt..	14	1,046		
									Otherwise disposed of.	..	128		

ANNUAL

Forest Department, Madras,

Receipts and Issues of Timber and other Produce

District.	Range.	Name of depôt.	Description of timber and other produce.	On hand, 1st April 1885.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Chingleput..		..	..					*Nil.*
North Arcot.		Mámandúr.	Redwood roots and stumps.	Tons. lb. 95 1,960	..	..	Tons. lb. 21 0	..
		Nagapatla.	Do. ..	..	..	..	100 0	..
			Total ..	95 1,960	..	..	121 0	..
		Vellore ..	Sandalwood ..	13 588	..	..	11 812	..
		..	Fuel	137 1,960	..	..	224 525	..
South Arcot.		Tiruvannámalai and Tindivanam depôts	Véngai	1	2	..	342	701
		..	Miscellaneous timber.	28	115	..	1,169	3,125
			Total ..	29	117	..	1,511	3,826
		Tiruvannámalai.	Sandalwood ..	..	..	Chengam ..	lb. 1,930½	..
			Do. roots..	..	..	Do. ..	56	..
		Cuddalore..	Sandalwood ..	lb. † 1,064	..	Do. ..	26	..
		Head-quarter's office.	Do. ..	..	..	Do. ..	44	..
		Tindivanam.	Do. ..	..	..	Transferred from Tiruvannamalai.	86	..
			Total ..	1,064	..	..	2,056½	..
		Trinomalai and head-quarter's office.	Honey	..	..	Forests ..	210⅔	..
			Wax	..	..	..	29⅛	..
				..	..	..	239²²/₄₀	..
Salem ..		..	Teak	72	9⅙	..	..	..
		..	Véngai	..	..	Forests ..	24	78⅓
		..	Junglewood ..	..	..	Do. ..	80	86⅚
		..	Miscellaneous timber.	88	238	Do. ..	1,296	1,909
			Total ..	160	247⅙	..	1,400	2,074⅙
		..	Bamboos	..	..	Forests ..	lb. 1,680	..
			Sandalwood ..	Tons. lb. 37 1,817	..	Forests ..	Tons. lb. 9 2,199	..
			Honey	..	..	Forests ..	lb. 32	..
Trichinopoly		Trichinopoly	Casuarina poles ..	No. 47	..	..	..	..

FORM No. 70.

Southern Circle.

in Sale Depôts, during the Year 1885-86.

TOTAL.		DISPOSED OF DURING THE YEAR.			BALANCE ON 31ST MARCH, 1886.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Tons. lb. 116 1,960	..	Sold	Tons. lb. 116 1,960	..	..	..	
100 0	..	Do.	100 0	..	..	..	
216 1,960	..	..	216 1,960	..	..	..	
* 24 1,400	..	Sold	12 2,156	..	Tons. lb. 11 812	..	* 672 lb. written off as wastage.
362 245	..	Sold .. .. Supplied to manufactory.	177 1,524 23 1,544	..	160 1,656	..	
343	703	Sold	343	703	..	..	
1,197	3,240	Do. .. .. Taken as specimen.	1,061 1	2,766 3	135	471	
1,540	3,943	..	1,405	3,469	135	471	
lb. 1,930½	..	Sold .. .. Transferred to Tindivanam depôt.	lb. 1,039½ 86	..	lb. 805	..	
56	..	..	..	..	56	..	
1,090	..	Sold	217	..	873	..	† The closing balance of 1884-85 was 1 ton and 1,624 lb.
44	..	..	..	..	44	..	
86	..	Do.	86	..	..	..	
3,120½	..	..	1,342½	..	1,778	..	
lb. 210⅜	..	Sold	171⅜	..	39	..	
29⅛	..	Do.	29⅛	..	..	..	
239²⁸⁄₄₀	..	..	200²⁸⁄₄₀	..	39	..	
72	9⅙	Sold	72	9⅛	..	..	
24	78⅓	..	..	..	24	78⅓	
80	86⅚	Supplied to Remount depôt.	80	86⅝	..	..	
1,384	2,147	Do. .. Sold	1,149 126	1,591 232	109	324	
1,560	2,321⅓	..	1,427	1,919	133	402⅓	
lb. 1,680	..	Supplied to Remount depôt.	lb. 1,680	..	..	..	
Tons. lb. 47 1,776	..	Sold	Tons. lb. 45 1,479	..	Tons. lb. 2 297	..	
lb. 32	..	Sold	lb. 32	..	..	..	
No. 47	..	Sold	No. 18	..	No. 29	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of depôt.	Description of timber and other produce.	On hand, 1st April 1885. Number or quantity.	On hand, 1st April 1885. Cubic feet.	Received during the year. Whence received.	Received during the year. Number or quantity.	Received during the year. Cubic feet.
Trichinopoly—*contd.*		Trichinopoly	Firewood ..	Tons. lb. 11 2,157	..	Forests ..	Tons. lb. 285 531	..
		Tiruvádi ..	Do.	* 10 896	..	Do. ..	321 1,568	..
		Kumbakónam.	Do.	† 11 896	..	Do. ..	626 2,138	..
			Total ..	33 1,709	..	..	1,233 1,987	..
Coimbatore (North).		Kollegál ..	Teak	..	..	Forests ..	9	40½
		..	Teak saplings ..	..	..	Do. ..	26	..
		..	Miscellaneous saplings.	..	..	Do. ..	6	..
		..	Sandalwood ..	..	..	..	lb. 1,995	..
Coimbatore (South).		Coimbatore.	Teakwood ..	481	9,916	Vellarágu Adivaram depôt.	53	1,709 5/12
			Rosewood ..	93	1,696	Ánaimalai depôt.	20	385
			Junglewood ..	1	28	Pollâchi ..	5	167
		Anaimalai.	Rosewood ..	287	4,454	..	..	..
		Vellaragu Ádiváram.	Teakwood ..	..	..	Forests ..	134	4,159
			Total ..	862	16,094	..	159	4,711
Madura ..		Kodaikánal depôt.	Rafters	..	..	Forests ..	Tons. lb. 2 1,162	..
			Firewood	Tons. lb. 131 1,085	..	..	213 1,105	..
Tinnevelly ..		Pápanásam.	Miscellaneous ..	337	357	Forests ..	§ 1,128	§ 1,454
			Planks	9	27	Do. ..	76	119
			Total ..	346	384	..	1,204	1,573
			Tánikói	Tons. lb. 11 358	..	Forests ..	Tons. lb. 14 804	..
Malabar Wynaad and Pálghat).		..	..					*Nil.*
Mla ar (Nilambúr).		Nellikutta	Teak	..	..	Forests ..	301	12,774
			Blackwood ..	..	..	..	16	663
			Véngai	..	..	..	112	6,968
			Miscellaneous ..	..	..	..	500	29,324
			Total ..	..	..	..	929	49,729

in Sale Depôts, during the Year 1885-86—*continued*.

Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
Number or quantity.	Cubic feet	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Tons. lb.			Tons. lb.		Tons. lb.		
297 448	..	Sold	297 448	..	..	..	
332 224	..	Do.	277 1,991	..	54 473	..	*The closing balance of 1884-85 was 6 tons and 54 lb.
638 784	..	Do.	614 1,456	..	23 1,568	..	†The closing balance of 1884-85 was 10 tons and 94½ lb.
1,267 1,456	..	..	1,189 1,655	..	77 2,041	..	
9	40½	..	..	..	9	40½	
..	26	..	..	..	26	..	
..	6	..	..	..	6	..	
lb. 1,995	..	..	..	..	lb. 1,995	..	
534	11,626	Sold	226	‡ 5,112	308	6,514	‡ Exclusive of the 141 cubic feet of confiscated teak included by the District Forest Officer.
113	2,081	Do.	88	1,533	25	548	
6	195	Do.	3	117	3	78	
287	4,454	Transfered to Coimbatore depôt.	20	385	247	3,793	Note.—The closing balance of 1884-85 under teak, rosewood and junglewood were erroneously repeated in the statement of that year. The opening balances now shown are correct.
		Sold	20	217			
		Deduction in measurement.	..	59			
134	4,159	Sent to Coimbatore depôt.	53	1,709	81	2,450	
1,021	20,421	..	357	7,038	664	13,383	
Tons. lb.			Tons. lb.		Tons. lb.		
2 1,162	..	Sold	2 1,162	..	..	..	
344 2,190	..	Do.	216 827	..	106 1,143	..	
		Written off ..	22 220				
1,465	1,811	Sold	697	747	436	998	§ Of this 7 cubic feet (No. 21) of Nanja Erkals are shown as having been received into depôt but do not appear in Form No. 69.
		Used departmentally.	332	66			
85	146	Sold	16	34	69	112	
1,550	1,957	..	1,045	847	505	1,110	
Tons. lb.			Tons. lb.		Tons. lb.		
25 1,162	..	Shipped to London.	24 1,120	..	0 ‖ 687	..	‖ The balance ought to be 1,039 lb.
		Wastage ..	0 1,243				
301	12,774	Sold	301	12,744	..	..	
16	663	Do.	16	663	..	..	
112	6,968	Do.	112	6,968	..	..	
500	29,324	Do.	500	29,324	..	..	
929	49,729	..	929	49,729	..	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of depôt.	Description of timber and other produce.	On hand, 1st April 1885.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Malabar (Nilambúr) —*contd.*		Panangód.	Teak	..	..	Forests ..	880	..
			Blackwood ..	..	..	..	38	..
			Miscellaneous ..	..	..	..	1,672	..
			Total ..	..	..	..	2,590	..
			Teak saplings ..	839	..	..	53,641	..
			Firewood or unstamped Karyas.	..	..	..	Tons. lb. 11 0	..
				..	..	From branch sapling stock at Kallai.	0 1,120	..
			Bamboos ..	105	..	From sapling raft.	20,170	..
South Canara.		Mangalore.	Teak	32	646¼	Forest.	1	20
			Blackwood ..	1	13	..	2	22½
			Jack	6	85½	..	..	..
			Wild jack ..	5	116¾	..	1	18¼
			Banapu	6	69¼	..	58	1,277
			Miscellaneous ..	21	323	..	41	1,051¼
			Total ..	71	1,253¾	..	103	2,389
Grand Total.			Teak	..	10,572 6/12	..	..	16,993½
			Rosewood ..	..	6,163	..	..	685½
			Véngai	..	2	..	..	7,747½
			Miscellaneous timbers.	..	1,359½	..	..	38,531½
				Tons.	lb.		Tons. lb.	
			Red sanders ..	95	1,960	..	121 0	..
			Sandalwood ..	51	1,229	..	23 342½	..
			Fuel	303	274	..	1,683 257	..
			Bamboos	..	..	..	0 1,680	..
				No.			No.	
			Do.	105	..	..	20,170	..
				Tons. lb.			Tons. lb.	
			Minor produce ..	11 358	..	..	14 1,075 28/40	..
				No.			No.	
			Teak saplings ..	839	..	..	53,641	..

in Sale Depôts, during the Year 1885-86—*continued.*

TOTAL.		DISPOSED OF DURING THE YEAR.			BALANCE ON 31ST MARCH 1886.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
880	..	..	..	..	880	..	
38	..	..	..	..	38	..	
1,672	..	..	..	..	1,672	..	
2,590	..	..	..	..	2,590	..	
54,480	..	Sold	54,080	..	119	..	
		Rejected ..	281				
Tons. lb.			Tons. lb.				
11 1,120	..	Sold	11 1,120	..	..	..	
20,275	..	Sold	20,110	..	..	..	
		Used departmentally.	165				
33	666¼	..	..	..	33	666¼	
3	35½	..	..	..	3	35½	
6	85½	Sold	4	62	2	23½	
6	135	Do.	4	109	2	26	
64	1,346¼	Do.	45	1,024¼	19	322	
62	1,374¼	Do.	10	188½	52	1,185¾	
174	3,642¾	..	63	1,383¾	111	2,259	
..	27,565 11/12	Sold	..	17,895⅙	..	9,670¾	
		Do.	..	2,413			
..	6,848½	Otherwise disposed of.	..	59	..	4,376½	
..	7,749⅓	Sold	..	7,671	..	78⅓	
		Do.	..	34,603⅔			
..	39,890⅚	Otherwise disposed of.	..	1,746⅚	..	3,540¼	
Tons. lb.			Tons. lb.				
216 1,960	..	Sold	216 1,960	..	..	..	
					Tons. lb.		
		Do.	59 497½				
74 1,571½	..	Otherwise disposed of.	0 672	..	15 402	..	
		Sold	1,595 646				
1,986 531	..	Otherwise disposed of.	45 1,764	..	345 361	..	
0 1,680	..	Otherwise disposed of.	0 1,680	..	..	..	
No.			No.				
		Sold	20,110				
20,275	..	Otherwise disposed of.	165	..	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
		Sold	0 232 2/40				
25 1,433 2/40	..	Otherwise disposed of.	25 475	..	0 726*	..	
No.			No.		No.		
		Sold	54,080				
54,480	..	Otherwise disposed of.	281	..	119	..	

* For this difference please see note opposite to Tinnevelly.

Annual Form No. 71.

Forest Department, Madras, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Chingleput	..	Kámbákam hill.	I (*a*)	Red sanders roots ..	Tons 153⅓	..	Rs. 15 per ton.	2,300 0 0	2,300 0 0	..	..	
	..	Do. ..	Do.	Tamba posts ..	,, 50	..	,, 20 ,,	1,000 0 0	1,000 0 0	..	..	
	..	Maiyúr plantation.	Do.	Casuarina wood ..	,, 400	..	4 6 0	1,750 0 0	1,750 0 0	..	..	
			..	Amount realized on other casuarina trees.	..	..	..	247 10 7	247 10 7	..	..	
				Total ..	Tons 603⅓	..	..	5,297 10 7	5,297 10 7	..	..	
	..	..	I (*b*)	Firewood	..	..	..	2 13 6	2 13 6	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	17 10 8	17 10 8	..	..	
				Total of the District.	..	..	..	5,318 2 9	5,318 2 9	..	..	
				Sold from depôt.								
North Arcot.	..	Mámandúr ..	I (*a*)	Redwood roots and stumps.	Tons 116	lb. 1,960	Rs. 15 per ton.	1,753 2 0	1,753 2 0	..	..	
	..	Nágapatla ..	Do.	Do. do. ..	,, 100	..	,, 14 ,,	1,400 0 0	1,400 0 0	..	..	
				Sold from forests.								
	..	Napier reserve.	I (*a*)	Redwood posts ..	No. 3	..	,, 2 ,,	6 0 0	6 0 0	..	..	
	..	Champalli forests.	Do.	Redwood pieces ..	A heap.	..	..	80 0 0	80 0 0	..	..	
				Total ..	Tons 216 No. 3	lb. 1,960	..	3,239 2 0	3,239 2 0	..	..	
				Sold from depôt.								
	..	Vellore ..	I (*b*)	Fuel	Tons 201	lb. 828	..	1,522 7 3	1,522 7 3	..	..	
				Sold from forests.								
	..	Vanivédu plantation.	I (*b*)	Fuel		Whole plantation.		3,940 0 0	3,940 0 0	..	..	
	..	Tiruvallam plant.	Do.	Casuarina wood ..	Tons 306	..	5 8 0	1,683 0 0	..	..	..	
			Do.	Do. branch do.	,, 133	..	3 0 0	399 0 0	..	..	..	
			Do.	Do. do. ..	,, 5	..	2 0 0	10 0 0	10 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c. removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests—contd.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
North Arcot—*continued.*	..	Kilminnel plantation.	I (*b*)	Casuarina branch wood.	Tons 59	lb. 560	2 0 0	118 8 0	118 8 0	..	..	
			Do.	Casuarina wood ..	,, 2	,, 1,120	3 0 0	7 8 0	7 8 0	..	..	
			Do.	Do. do. ..	,, 461	,, 1,493	6 0 0	2,770 0 0	2,770 0 0	..	..	
			Do.	Do. do. ..	,, 1	,, 1,120	2 10 8	4 0 0	4 0 0	..	..	
			Do.	Do. do. ..	,, 2	,, 1,120	2 0 0	5 0 0	5 0 0	..	..	
			Do.	Do. do. ..	,, 9	..	3 10 8	33 0 0	33 0 0	..	..	
			Do.	Casuarina branch wood.	,, 64	lb. 1,120	2 8 0	161 4 0	161 4 0	..	..	
	..	Virinjipuram.	Do.	Do. do. ..	,, 7	,, 1,120	3 0 0	22 8 0	22 8 0	..	..	
			Do.	Do. do. ..	,, 20	..	2 8 0	50 0 0	50 0 0	..	..	
	..	Bolampatti tope.			Tons 1,073	lb. 1,581	..	10,726 3 3	8,644 3 3	..	..	
			Do.	Casuarina poles ..	No. 20	..	2 0 0	40 0 0	40 0 0	..	..	
			Do.	Do. do. ..	,, 2	..	3 0 0	6 0 0	6 0 0	..	..	
				Total ..	Tons 1,073 / No. 22	lb. 1,581	..	10,772 0 0	8,690 3 3	..	..	
				Sold from depôt.								
	..	Vellore sandalwood depôt.	I (*d*)	Sandalwood ..	Tons 12	lb. 2,156	Rs. 337 8 0 per ton.	4,478 3 3	4,478 3 3	..	..	
				Sold from forests.								
	..	Kilminnel plantation.	I (*e*)	Plants	No. 4,500	..	Rs. 5 per 1,000	22 8 0	22 8 0	..	..	
			Do.	Seed	..	lb. 50	Re. 1 per lb.	56 8 0	56 8 0	..	..	* Includes Rs. 6-8-0 being cart-hire, &c
	..	Chandragiri range.	Do.	Tamarind	Ton 1	..	..	9 2 11	9 2 11	..	..	
			Do.	Woodapple ..		Certain quantity.		5 0 0	5 0 0	..	..	
	..	Attiyúr tope, Vellore range.	Do.	Cost of seed (*Pterocarpus Santalinus*) supplied to Singapore.	..	..	..	1 2 0	1 2 0	..	..	
				Total ..	Ton 1 / No. 4,500	lb. 50	..	94 4 11	94 4 11	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	337 1 3	337 1 3	..	..	
				Total of the District.	..	..	..	19,620 14 8	16,838 14 8	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Arcot.	..	Tiruvannámalai and Tindivanam.	I (*a*)	Véngai	No. 343	C. ft. 703	0 15 0 0 13 0 0 12 7	628 13 6	628 13 6	..	..	
			..	Miscellaneous timbers.	,, 1,061	,, 2,763	..	1,810 1 10	1,810 1 10	..	..	
				Sold from forests.								
			..	Véngai	No. 109	C. ft. 383	0 13 6 0 11 6 0 8 0	206 0 11	206 0 11	..	..	
			..	Miscellaneous timbers.	,, 1,401	,, 3,470	..	1,310 0 8	1,310 0 8	..	..	
		Other ranges .	..	Do. do. ..	,, 2	,, 256	..	57 0 0	57 0 0	..	..	
			..	Casuarina poles ..	,, 1,090	,, 1,733	..	849 11 11	849 11 11	..	..	
				Total ..	No. 4,006	C. ft. 9,308	..	4,861 12 10	4,861 12 10	..	..	
	..	All the ranges.	I (*b*)	Casuarina fuel ..	Tons 722	lb. 2,044	..	2,729 1 4	2,729 1 4	..	..	
			..	Kandán firewood ..	,, 101	,, 1,638	..	164 12 6	164 12 6	..	..	
				Total ..	Tons 824	lb. 1,442	..	2,893 13 10	2,893 13 10	..	..	
				Sold from depôt.								
	..	Tiruvannámalai, Tindivanam and Cuddalore.	I (*d*)	Sandalwood ..	..	lb. 1,342½	5 0 0 4 8 0 4 2 8 3 0 0	164 4 9	164 4 9	..	..	
				Sold from forests.								
			...	Sandalwood ..	Ton 1	lb. 560	3 0 0	300 0 0	300 0 0	..	..	
				Total ..	Ton 1	lb. 1,902	..	464 4 9	464 4 9	..	..	
				Sold from depôt.								
	..	All the ranges.	I (*e*)	Honey	..	lb. 171⅜	..	21 1 9	21 1 9	..	..	
			..	Wax	..	,, 29⅛	..	10 3 0	10 3 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
South Arcot—*contd.*				*Sold from Forests.*			Rs. A. P.	Rs. A. P.	Rs. A. P.			
	..	..	..	Gallnuts	Tons 2	lb. 420	Rs. 53⅓ per ton.	116 10 8	116 10 8	..	..	
	..	..	..	Honey	..	,, 1	..	0 2 8	0 2 8	..	..	
	..	..	..	Nánal grass ..	Tons 3	..	2 0 0	6 0 0	6 0 0	..	..	
	..	..	..	Belgam walnuts ..	..	lb. 4	0 6 0	1 8 0	1 8 0	..	..	
	..	..	..	Tamarind fruit ..	..	,, 330	..	5 9 5	5 9 5	..	..	
	..	..	..	Velvélam bark ..	Ton 1	359⅓	..	19 4 0	19 4 0	..	..	
	..	..	..	Cocoa leaves ..	No. 400	..	10 As. per 100	2 8 0	2 8 0	..	..	
	..	..	..	Silk cotton pods ..	,, 10,550	..	..	23 13 2	23 13 2	..	..	
	..	..	..	Fire sticks	..	lb. 224	..	1 0 0	1 0 0	..	..	
	..	..	..	Amount realized from casuarina seed supplied to Kharwar.	..	..	..	1 8 0	1 8 0	..	..	
	..	..	..	Amount realized fr m casuarina seed supplied to Singapore.	..	..	..	5 14 0	5 14 0	..	..	
	..	..	..	Particulars not given.	..	..	..	26 12 0	26 12 0	..	..	
				Total ..	Tons 6 No. 14,550	lb. 1,739 1/120	..	241 14 8	241 14 8	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	438 13 9	438 13 9	..	..	
				Total of the District.	..	..	..	8,900 11 10	8,900 11 10	..	..	
Salem ..				*Sold from depôt.*								
	..	..	I (*a*)	Teak	No. 72	C. ft. 9⅙	1 4 4	11 10 5	11 10 5	..	..	
	..	..	..	Junglewood ..	,, 80	,, 86⅔	0 11 0	59 11 1	59 11 1	..	..	
	..	..	..	Miscellaneous timbers.	,, 1,275	1,823	..	1,499 8 2	1,499 8 2	..	..	
				Total ..	No. 1,427	C. ft. 1,919	..	1,570 13 8	1,570 13 8	..	..	
	..	..	I (*c*)	Bamboos	..	lb. 1,680	0 0 10	86 6 0	86 6 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or localtiy.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
	..	..	I (*d*)	Sandalwood ..	Tons 45	lb. 1,479	..	9,329 10 11	9,329 10 11	..	..	
	..	..	I (*e*)	Honey	..	,, 32	..	13 2 0	13 2 0	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	974 6 1	974 6 1	..	..	
				Total of the District.	..	..	..	11,974 6 8	11,974 6 8	..	..	
				Sold from forests.								
	..	..	I (*a*)	Véngai	..	C. ft. 1	..	11 8 0	11 8 0	..	..	
	..	..	..	Casuarina poles and posts.	..	,, 250	..	359 4 0	359 4 0	..	..	
	..	..	..	Miscellaneous timbers.	..	,, 29	..	38 8 0	38 8 0	..	..	
				Sold from depôt.								
	..	..	..	Miscellaneous timbers.	..	C. ft. 18	..	2 6 0	2 6 0	..	..	
				Total ..	..	C. ft. 298	..	411 10 0	411 10 0	..	..	
Trichinopoly.	Kulitalai and Udayárpálaiyam.	Trichinopoly ..	I (*b*)	Firewood	Tons 297	lb. 448	..	743 12 0	743 12 0	..	..	
		Tiruvadi ..	..	Do.	,, 277	,, 1,991	..	964 5 0	964 5 0	..	..	
		Kumbakónam ..	..	Do.	,, 614	,, 1,456	..	2,525 8 6	2,525 8 6	..	..	
				Sold from forests.								
			..	Firewood	Tons 2,236	lb. 991	..	7,771 4 6	7,210 9 6	..	..	
				Total ..	Tons 3,424	lb. 406	..	12,004 14 0	11,443 10 0	..	..	
			I (*c*)	Bamboos	No. 515	..	..	77 8 0	77 8 0	..	..	
	..	Kulitalai and Lálápet.	I (*e*)	Gallnuts	Ton 1	lb. 1,820	67 9 4 per ton.	122 8 0	122 8 0	..	..	
			..	Kapilapodi	..	,, 35	0 4 $1\frac{13}{35}$ per lb.	9 0 0	9 0 0	..	..	
				Total ..	Ton 1	lb. 1,855	..	131 8 0	131 8 0	..	..	

Sales of Timber and other Prodce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							Rs. A. P.	Rs. A. P.	Rs. A. P.			
Trichinopoly—*contd.*	..	..	III	Confiscated drift and waifwood.	..	..	..	32 3 2	32 3 2	..	..	
				Total of the District.	..	..	..	12,657 11 2	12,096 7 2	..	..	
Tanjore ..	..	..	III	Confiscated drift and waifwood.	..	..	..	9 13 9	9 13 9	..	..	
Coimbatore (North).	..	..	I (*d*)	Sandalwood ..	..	..	..	* 2,000 0 0	2,000 0 0	..	..	* This represents the payment of 1884-85 not credited during that year by mistake; *vide* remark in the statement appended to report for 1884-85.
	..	..	III	Confiscated drift and waifwood.	..	..	..	309 6 1	309 6 1	..	..	
				Total of the Division.	..	..	..	2,309 6 1	2,309 6 1	..	..	
Coimbatore (South).				*Sold from depôt.*								
		Coimbatore depôt.	I (*a*)	Teak	No. 226	C. ft. 5,112	..	5,275 2 10	5,275 2 10	..	..	
				Sold from forests.								
	Túnakadavu.		..	Teak used departmentally.	..	298	0 8 0	149 0 0	149 0 0	..	..	
	Shólakarai.		..	Teak posts	..	331	..	400 0 0	400 0 0	..	..	
			..	Junglewood ..	..	771						
				Sold from depôt.								
		Coimbatore depôt.	..	Rosewood	88	1,533	..	1,108 10 2	1,108 10 2	..	..	
		Anaimalai depôt.	..	Do.	20	217	..	214 2 9	214 2 9	..	..	
		Coimbatore depôt.	..	Junglewood ..	3	117	1 4 0	145 15 9	145 15 9	..	..	
		Anamalai and Vallaragu depôts.	..	Do.	* 3	48	..	19 11 0	19 11 0	..	..	* Not shown in Form No. 70.
				Sold from forests.								
	Bólampatti.		..	Junglewood ..	2	113⅓	3 0 0	25 4 10	25 4 10	..	..	
			..	Blackwood	2	67⅔	6 0 0 per candy	26 6 8	26 6 8	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests—contd.			RS. A. P.	RS. A. P.	RS. A. P.			
	Túnakadavu.	..	..	Junglewood ..	..	158	..	22 12 6	22 12 6	..	..	
	..	..	..	Value of old pieces of wood not known.	..	..	..	0 6 0	0 6 0	..	..	
				Total ..	No. 344	C. ft. 8,766 6/12	..	7,387 8 6	7,387 8 6	..	..	
	Shólakarai.	..	I (*b*)	Firewood	Tons 471	..	..	720 0 0	720 0 0	..	..	
	Do.	..	I (*c*)	Bamboos	No. 2,000	..	..	40 0 0	40 0 0	..	..	
	..	..	..	Thorns, &c. ..	..	..	..	5 0 0	5 0 0	..	..	
	..	..	..	Value of old pieces of bamboos.	..	..	..	1 3 0	1 3 0	..	..	
				Total ..	No. 2,000	..	..	46 3 0	46 3 0	..	..	
Coimbatore South — *contd.*	Tunakadavu.	..	I (*e*)	Cardamoms	..	lb. 504	..	577 6 0	577 6 0	..	..	
	..	..	..	Pepper	..	,, 560	..	160 0 0	160 0 0	..	..	
	..	..	..	Wax	..	,, 364	..	125 0 3	125 0 3	..	..	
	..	..	..	Mattippál	..	3 8/16	..	59 8 0	59 8 0	..	..	
	..	..	..	Dammer	Tons 4	,, 28	..	827 1 2	827 1 2	..	..	
	..	..	..	Turmeric	..	,, 588	..	24 0 9	24 0 9	..	..	
	..	..	..	Deer horns	No. 4	..	..	15 12 10	15 12 10	..	..	
	..	..	..	Rattans	,, 11,245	..	..	465 12 8	465 12 8	..	..	
	..	..	..	Cost of certain seeds supplied to Singapore.	..	..	..	18 2 0	18 2 0	..	..	
	..	..	..	Cost of certain seeds supplied to Cudpah.	..	..	..	5 4 0	5 4 0	..	..	
				Total ..	Tons 4 / No. 11,249	2,047 8/16	..	2,277 15 8	2,277 15 8	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	293 12 4	293 12 4	..	..	
				Total of the Division	..	..	..	10,725 7 6	10,725 2 6	..	..	
				Sold from depôt.								
Madura ..	..	Kodaikánal ..	I (*a*)	Rafters	Tons 2	lb. 1,162	..	19 9 0	19 9 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Madura—*contd.*	..	Kodaikánal—*continued.*	..	Junglewood ..	..	C. ft. 91	..	11 6 0	11 6 0	..	..	
	..	Vannáttipárai reserve.	..	Véngai	..	,, 120	..	100 0 0	100 0 0	..	..	
	..	Pambar reserve.	..	Véngai	..	,, 80	..	72 4 0	72 4 0	..	..	
				Total ..	Tons 2 / C. ft. 291	lb. 1,162	..	203 3 0	203 3 0	..	..	
				Sold from depôt.								
	..	Kodaikánal and Kadavúr.	I (*b*)	Firewood	Tons 216	lb. 827	..	1,126 4 0	1,126 4 0	..	..	
			..	Cart-hire	..	..	..	38 12 0	38 12 0	..	..	
				Sold from forests.								
			..	Firewood	Tons 92	lb. 1,988	..	201 10 0	201 10 0	..	..	
				Total ..	Tons 309	lb. 575	..	1,366 10 0	1,366 10 0	..	..	
	..	Vannáttipárai.	I (	Gallnuts	Tons 3	lb. 48	..	147 4 0	147 4 0	..	..	
			..	Shiyakoi	..	,, 480	..	1 14 0	1 14 0	..	..	
			..	Cardamoms	..	,, 9	..	4 8 0	4 8 0	..	..	
			..	Particulars not given.	..	..	..	0 10 0	0 10 0	..	..	
				Total ..	Tons 3	lb. 537	..	154 4 0	154 4 0	..	..	
			III	Confiscated drift and waifwood.	..	..	..	1,770 10 10	1,770 10 10	..	..	
				Total of the iDstrict.	..	..	..	3,494 11 10	3,494 11 10	..	..	
Tinnevelly .	..	Pápanásam and Ambásamudram.	I (*a*)	Miscellaneous ..	No. 730	C. ft. 753	..	703 4 9	703 4 9	..	..	
				Sold from depôt.								
			..	Miscellaneous ..	No. 697	C. ft. 747	..	922 2 1	922 2 1	..	..	
			..	Planks	,, 16	,, 34	..	36 8 2	36 8 2	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Tinnevelly —*cont.*	..	..	..	Spokes	Pieces 2,136	223	..	229 8 0	229 8 0	..	..	
				Total ..	No. 3,579	C. ft. 1,757	..	1,891 7 0	1,891 7 0	..	..	
	..	..	I (*c*)	Bamboos	Ton 1	lb. 1,120	..	182 0 0	182 0 0	..	..	
	..	..	I (*e*)	Seedlings	No. 1,505	..	..	48 8 9	48 8 9	..	..	
	..	..	III	Confiscated drift and waifwood	..	..	..	234 14 10	234 14 10	..	..	
				Total of the District.	..	..	..	2,356 14 7	2,356 14 7	..	..	
Malabar (Wynaad and Pálghat).	..	Wynaad, Chedleth, Kudrakôt, Pádri ranges.	I (*a*)	Teak	No. 1,289	C. ft. 47,870	..	22,443 8 8	22,443 8 8	..	..	
				Blackwood	,, 149	,, 4,935	..	1,534 14 8	1,534 14 8	..	..	
				Véngai	,, 25	,, 803	..	305 3 1	305 3 1	..	..	
	..	Pálghat, Chenát Nair Wálayár reserved forest and Walawanád forest.	..	Blackwood	,, 1	,, 16	..	8 2 6	8 2 6	..	..	
				Véngai	,, 35	,, 665	..	239 6 5	239 6 5	..	..	
				Teak pieces	,, 5,736	..	..	453 0 0	453 0 0	..	..	
				Miscellaneous ..	,, 143	,, 5,255	..	2,941 13 6	2,941 13 6	..	..	
				Teak poles	..	..	..	722 8 3	722 8 3	..	..	
				Total ..	No. 7,378	C. ft. 59,544	..	28,648 9 1	28,648 9 1	..	..	
	..	..	I (*b*)	Firewood	Tons 3,230	..	..	5,535 10 9	5,535 10 9	..	..	
	..	..	I (*c*)	Bamboos—	No. 3,090	..	..	148 9 0	148 9 0	..	..	* In Form No. 69, 13,390 bamboos are shown to have been sold.
	..	Wynaad ..	..	Do.	,, * 9,215							
				Total ..	No. 12,305	..	..	148 9 0	148 9 0	..	..	
	..	Wynaad and Pálghat.	I (*e*)	Cardamoms	..	lb. 304	..	308 12 0	308 12 0	..	..	
				Honey	..	,, 134	..	30 6 0	30 6 0	..	..	
				Particulars not known	..	..	..	12 11 0	12 11 0	..	..	
					..	lb. 438	..	351 13 0	351 13 0	..	..	
				Total of the division.	..	..	..	34,684 10 2	34,684 10 2	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.				Rs. A. P.	Rs. A. P.			
Malabar (Nilambúr)	..	Nellikutta ..	I (*a*)	Teak	No. 301	C. ft. 12,774	Rs. 1 1/3 per cubic foot.	13,756 12 5	..	..	..	
	..	..	..	Blackwood	16	663	Re. 1/3	510 4 10	..	..	..	
	..	..	..	Véngai	112	6,968	,, 2/28	2,411 13 7	..	..	..	
	..	..	..	Miscellaneous ..	500	29,324	..	7,408 2 2	..	..	..	
				Total ..	..	..	..	24,087 1 0	18,709 2 2	..	..	
	..	Kallai	..	Teak saplings ..	..	..	..	59,720 8 10	59,720 8 10	..	..	
	..	..	..	Bamboo rafters ..	12,260	..	..	1,067 8 0	1,067 8 0	..	..	
				Total ..	No. 13,189	C. ft. 49,729	..	84,875 1 10	79,497 3 0	..	..	
	..	..	I (*b*)	Firewood Karyas ..	Tons 11½	..	Rs. 2-0-0 per cart-load of 50	46 0 0	46 0 0	..	..	
	..	..	I (*c*)	Bamboos	7,850	..	..	582 0 0	582 0 0	..	..	
				Sold from forests.								
	..	..	..	Bamboos	432	..	..	21 13 0	21 13 10	..	..	
				Total ..	No. 8,282	..	..	603 13 10	603 13 10	..	..	
				Total of the Division.	..	..	..	85,524 15 8	80,147 0 10	..	..	
				Sold from depôt.								
South Canara ..	..	..	I (*a*)	Wild jack	No. 4	C. ft. 109	As. 12 0	81 12 0	81 12 0	..	..	
	..	..	..	Jack	,, 4	62	,, 12 0	46 8 0	46 8 0	..	..	
	..	..	..	Banapu	,, 45	1,024¼	,, 13 1	835 13 7	835 13 7	..	..	
	..	..	..	Miscellaneous ..	,, 10	188½	,, 10 9	127 2 0	127 2 0	..	..	
				Sold from forests.								
	..	..	..	Teak logs	,, 87	359	..	145 9 6	145 9 6	..	..	
	..	..	..	Banapu	,, 17	386½	..	323 15 10	323 15 10	..	..	
	..	..	..	Miscellaneous ..	,, 1	32¾	..	1 6 0	1 6 0	..	..	
	..	..	..	Teak poles	,, 80	..	..	11 5 0	11 5 0	..	..	
	..	..	..	Teak logs	,, 8	..	..	82 4 0	82 4 0	..	..	
	..	..	..	Jack	,, 5	30	..	8 2 0	8 2 0	..	..	
	..	..	..	Junglewood ..	,, 11	54¾	..	8 8 0	8 8 0	..	..	
				Total ..	No. 272	C. ft. 2,246¾	..	1,672 5 11	1,672 5 11	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests—continued.				Rs. A. P.	Rs. A. P.			
South Canara—*continued*	..	..	I (*b*)	Firewood	Tons 32	..	As. 12 0	25 3 0	25 3 0	..	..	
	..	..	..	Do.	Particulars not known.		..	52 15 6	52 15 6	..	..	
				Total ..	Tons 32	..	..	78 2 6	78 2 6	..	..	
	..	..	I (*e*)	Cinnamon flowers ..	Tons 16	lb. 1,353½	..	3,644 13 5	3,644 13 5	..	..	
	..	..	..	Shiyakoi	9	,, 1,618½	..	555 11 1	555 11 1	..	..	
	..	..	..	Wax	..	,, 1,089⅓	..	476 8 2	476 8 2	..	..	
	..	..	..	Honey	Tons 2	,, 179	..	412 4 2	412 4 2	..	..	
	..	..	..	Myrabolams ..	,, 4	,, 345	..	228 13 7	228 13 7	..	..	
	..	..	..	Pepper	..	,, 503	..	114 12 2	114 12 2	..	..	
	..	..	..	Belaric Myrabolam..	Tons 7	,, 1,103	..	74 14 11	74 14 11	..	..	
	..	..	..	Deer horns	..	,, 174	..	34 2 8	34 2 8	..	..	
	..	..	..	Nux Vomica ..	..	,, 1,509	..	30 15 6	30 15 6	..	..	
	..	..	..	Rampatri	..	,, 132½	..	20 1 3	20 1 3	..	..	
	..	..	..	Honne fruits ..	..	,, 1,596	..	14 4 0	14 4 0	..	..	
	..	..	..	Ramgotu	..	,, 368	..	12 0 0	12 0 0	..	..	
	..	..	..	Dhúp	..	,, 14	..	8 0 0	8 0 0	..	..	
	..	..	..	Myrabolams ..	Tons 45	..	..	2,970 0 0	2,970 0 0	..	..	
	..	..	..	Sundries	— ..	..	..	1,397 9 2	1,397 9 2	..	..	
				Total ..	Tons 87	lb. 1,024	..	9,994 14 1	9,994 14 1	..	..	
			III	Confiscated drift and waifwood.	..	..	..	1,392 5 3	1,392 5 3	..	..	
				Total of the District.	..	..	..	13,137 11 9	13,137 11 9	..	..	

Abstract for the whole Circle.

Budget sub-head.	Sales from forests.	Sales from depôts.
	Rs. A. P.	Rs. A. P.
I (*a*)	39,185 12 3	95,495 9 4
I (*b*)	23,809 15 1	6,967 0 9
I (*c*)	476 2 2	668 6 0
I (*d*)	2,300 0 0	13,972 2 11
I (*e*)	13,263 14 4	44 6 9
III	4,836 11 11	974 6 1
Total ..	83,872 7 9	1,18,121 15 10

ANNUAL FORM No. 72.

Forest Department, Madras, Southern Circle.

Timber and other Produce cut, collected, and removed from the Forests by Consumers or Purchasers, including Pasture, during the Year 1885-86.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS. A. P.	RS. A. P.	
Chingleput	Junglewood poles	1,741	4,352 15 10	4,352 15 10	II (*a*).
	Firewood	11,851½	7,544 12 10	7,544 12 10	II (*b*).
	Bamboos	196	494 6 0	494 6 0	II (*c*).
	Áváram bark	29½	881 0 0	881 0 0	II (*e*).
	Rent on palmyra fruit trees ..	..	1,042 5 7	1,042 5 7	
	Total of II (*e*) ..	29½	1,923 5 7	1,923 5 7	
	Total of the District ..	29½	14,315 8 3	14,315 8 3	
North Arcot ..	Timber .. .. .. Cubic feet.	368,872	18,443 9 10	18,443 9 10	II (*a*).
	Palmyra trees	540	1,040 0 0	1,040 0 0	
	Total of II (*a*) ..	..	19,483 9 10	19,483 9 10	
		TONS. LB.			
	Firewood	30,902 1,228	23,176 14 8	23,176 14 8	II (*b*).
	Casuarina roots	79 1,120	79 8 0	..	
	Railway fuel	7,082 388	13,217 7 1	13,217 7 1	
	Charcoal	1,001 2,123	3,005 13 6	3,005 13 6	
	Total of II (*b*) ..	..	39,479 11 3	39,400 3 3	
	Bamboos .. .. Tons.	4,509	8,366 5 6	8,366 5 6	II (*c*).
	Do. contract	..	7,081 14 0	7,081 14 0	
	Total of II (*c*) ..	..	15,448 3 6	15,448 3 6	
	Grass	..	100 0 0	100 0 0	II (*d*).
	Bark .. .. Tons.	361	1,412 12 6	1,412 12 6	II (*e*).
	Gravel	432¼	52 8 3	52 8 3	
	Minor forest produce	..	9,847 9 2	9,847 9 2	
	Total of II (*e*) ..	..	11,312 13 11	11,312 13 11	
	Total of the District ..	..	85,824 6 6	85,744 14 6	
South Arcot ..	Véngai .. .. .. Cubic feet.	60	34 6 0	34 6 0	
	Satin	768	305 14 8	305 14 8	
	Karungali	162	65 6 0	65 6 0	
	Parambái	20	6 10 8	6 10 8	
	Selai	60	9 15 8	9 15 8	
	Ném	20	6 10 8	6 10 8	
	Namai	220	61 15 8	61 15 8	
	Kathurinji	80	24 9 4	24 9 4	
	Vémbu	60	11 10 8	11 10 8	
	Púvarasu	42	7 14 0	7 14 0	
	Junglewood	22,124	1,208 14 0	1,208 14 0	
	Miscellaneous timber	..	52 0 10	52 0 10	
		23,616	1,806 0 2	1,806 0 2	
	Palmyra trees .. .. .. No.	525	351 11 6	351 11 6	
	Cocoanut	61	7 14 0	7 14 0	
	Total of II (*a*) ..	..	2,165 9 8	2,165 9 8	II (*a*).
	Firewood .. .. .. Tons.	4,560	4,613 0 6	4,613 0 6	
	Casuarina	1,483	5,652 11 5	5,652 11 5	
	Bábúl	77	252 9 0	252 9 0	
	Áváram	101	101 14 0	101 14 0	
	Brushwood	2	8 0 0	8 0 0	
	Kilnwood	4	8 0 0	8 0 0	
	Charcoal	38	226 14 0	226 14 0	
	Sale of Poramboke firewood in auction by Revenue officials	..	4,706 9 0	4,706 9 0	
	Total of II (*b*) ..	6,265	15,569 9 11	15,569 9 11	II (*b*).

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity	Amount of revenue.	Amount actually realized during the year.	Remarks.
South Arcot—*cont.*	Bamboos	TONS. 1,349	RS. A. P. 2,774 8 6	RS. A. P. 2,774 8 6	
	Do. .. .. .. No.	12	2 6 0	2 6 0	
	Total of II (*c*) ..	..	2,776 14 6	2,776 14 6	II (*c*)
	150 cattle for 30 days at 8 annas per hundred	..	22 8 0	22 8 0	
	150 cattle for 49 days do. do. ..	..	36 12 0	36 12 0	
	Fodder grass .. .. .. Tons.	12	8 7 3	8 7 3	
	Sale of grass	..	1 4 0	1 4 0	
	Total of II (*d*) ..	..	68 15 3	68 15 3	II (*d*).
	Avâram bark .. .. .. Tons.	547	2,823 8 0	2,823 8 0	II (*e*).
	Velvélam bark	6	72 8 0	72 8 0	
	Konnai do.	1½	9 0 0	9 0 0	
	Thorns	348	117 12 10	117 12 10	
	Leaves	1,118⅜	1,523 1 7	1,523 1 7	
	Gallnuts	7 3/10	85 2 8	85 2 8	
	Other minor produce	..	1,753 4 11	1,753 4 11	
	Total of II (*e*) ..	..	6,384 6 0	6,384 6 0	
	Total of the District ..	..	26,965 7 4	26,965 7 4	
Salem	Timber .. .. .. Cubic feet.	116,106	12,326 10 8	12,326 10 8	II (*a*).
	House fuel	TONS. LB. 19,442 1,904	12,570 7 9	12,570 7 9	II (*b*),
	Railway fuel	3,314 0	6,339 6 5	6,339 6 5	
	Charcoal	1,487 1,904	5,301 1 6	5,301 1 6	
	Total of II (*b*) ..	..	24,210 15 8	24,210 15 8	
	Bamboos	8,875 784	11,494 1 0	11,494 1 0	II (*c*).
	Split bamboos	2,268 1,792	5,684 8 0	5,684 8 0	
	Total of II (*c*) ..	..	17,178 9 0	17,178 9 0	
	Grazing and fodder grass	..	418 13 2	418 13 2	II (*d*).
	Minor Produce ..	..	55,801 3 10	55,309 5 1	II (*e*).
	Total of the District ..	..	1,09,936 4 4	1,09,444 5 7	
Trichinopoly ..	Miscellaneous timber .. Cubic feet.	39,468	4,035 2 5	4,035 2 5	II (*a*).
	Firewood and charcoal	TONS. LB. 8,983 1,485	8,776 13 0	8,776 13 0	II (*b*).
	Bamboos	1,452 224	2,364 14 0	2,452 15 7	II (*c*).
	No.	637	88 1 7		
	Grass	..	2,122 5 0	2,122 5 0	II (*d*).
	Minor produce	TONS. LB. 485 1,568	2,483 7 9	2,483 7 9	II (*e*).
	Total of the District ..	..	19,870 11 9	19,870 11 9	
Tanjore ..	Timber	..	186 0 0	186 0 0	II (*a*).
	Firewood and charcoal	..	4,963 9 8	4,963 9 8	II (*b*).
	Bamboos	..	9 4 0	9 4 0	II (*c*).
	Grazing and fodder grass	..	200 2 6	200 2 6	II (*d*).
	Other minor produce	..	1,951 7 3	1,951 7 3	II (*e*).
	Total of the District ..	..	7,310 7 5	7,310 7 5	
Coimbatore (North) ..	Véngai .. .. .. Cubic feet.	2,840	1,165 0 0	1,165 0 0	II (*a*).
	Miscellaneous timber	33,957	4,363 15 0	4,363 15 0	
	Total of II (*a*) ..	46,797	5,528 15 0	5,528 15 0	
	Firewood and charcoal .. Tons.	5,638	4,546 11 10	4,546 11 10	II (*b*).
	Bamboos, plain	2,916	6,195 11 6	6,195 11 6	II (*c*).
	Do. split	503	2,207 0 0	2,207 0 0	
	Total of II (*c*) ..	3,419	8,402 11 5	8,402 11 6	

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks
Coimbatore (North)—*cont.*	Grazing and fodder grass	TONS. ..	RS. A. P. 1,437 10 0	RS. A. P. 1,437 10 0	II (*d*).
	Lump sum contract	..	7,750 0 0	7,750 0 0	II (*e*).
	Rent of topes including previous year's arrears	..	32,565 12 8	11,589 9 7	
	Other minor produce	..	3,259 1 10	3,259 1 10	
	Total of II (*e*) ..	..	43,574 14 6	22,598 11 5	
	Total of the District ..	..	63,490 14 10	42,514 11 9	
Coimbatore (South).	Teak .. .. .. Cubic feet	4,810	2,527 0 0	2,527 0 0	II (*a*).
	Véngai	7,178	1,225 0 0	1,225 0 0	
	Miscellaneous timber	41,159	4,458 0 0	4,458 0 0	
	Total of II (*a*) ..	53,147	8,210 0 0	8,210 0 0	
	Firewood .. .. Tons.	8,890	7,866 0 0	7,866 0 0	II (*b*).
	Do. on Poramboke	1,720	726 0 0	726 0 0	
	Charcoal	709	719 0 0	719 0 0	
	Total of II (*b*) ..	11,319	9,311 0 0	9,311 0 0	
	Bamboos	3,027½	6,426 0 0	6,426 0 0	II (*c*).
	Grazing fee, cattle .. .. No.	14,251	1,781 0 0	1,781 0 0	II (*d*).
	Grass in reserved lands	566	283 0 0	283 0 0	
	Total of II (*d*) ..	..	2,064 0 0	2,064 0 0	
	Minor produce	..	8,014 0 0	8,014 0 0	II (*e*).
	Total of the District ..	..	34,025 0 0	34,025 0 0	
Madura ..	Véngai .. .. Cubic feet.	1,556	474 0 0	474 0 0	II (*a*).
	Miscellaneous timber and junglewood	90,960	6,199 12 3	6,199 12 3	
	Total of II (*a*) ..	..	6,673 12 3	* 6,673 12 3	
	Firewood and charcoal	TONS. LB. 715,194 728	12,783 11 6	† 12,783 11 6	II (*b*).
	Bamboos	846 224	2,196 13 6	2,196 13 6	II (*c*).
	Grazing and fodder grass	..	1,338 3 0	1,338 3 0	II (*d*).
	Other minor produce	7 1,736	9,949 9 5	9,949 9 5	II (*e*).
	Total of the District ..	..	32,942 1 8	32,942 1 8	
Tinnevelly ..	Teak .. .. .. Cubic feet.	1,620	815 0 0	815 0 0	II (*a*.
	Véngai	2,090	997 0 0	997 0 0	
	Miscellaneous timber	22,248	3,342 0 0	3,342 0 0	
	Total of II (*a*) ..	25,958	5,154 0 0	5,154 0 0	
	Firewood .. .. .. Tons.	8,847 1,770	15,294 0 0	14,994 0 0	II (*b*).
	Charcoal	1,610 350	5,926 0 0	5,926 0 0	
	Total of II (*b*) ..	2,494 2,120	21,220 0 0	20,920 0 0	
	Bamboos	..	489 0 0	489 0 0	II (*c*).
	Grazing and fodder grass	..	57 0 0	57 0 0	II (*d*).
	Other minor produce	..	10,079 0 0	10,079 0 0	II (*e*).
	Total of the District ..	..	36,699 0 0	36,699 0 0	
Malabar (Wynaad and Pálghat).	Advance for teak	..	182 0 0	182 0 0	II (*a*).
	Do. Blackwood	..	200 0 0	200 0 0	
	Do. Véngai	..	327 8 0	327 8 0	
	Do. do.	..	96 0 0	96 0 0	
	Miscellaneous	..	404 4 0	404 4 0	
	Total of II (*a*) ..	..	1,209 12 0	1,209 12 0	
	Firewood and charcoal	..	279 8 6	279 8 6	II (*b*).
	Bamboos	..	376 14 0	376 14 0	II (*c*).
	Grazing and fodder grass	..	107 0 0	107 0 0	II (*d*).
	Other minor produce .. .. Tons.	242	1,230 4 0	1,230 4 0	II (*e*).
	Total of the District ..	..	3,203 6 6	3,203 6 6	

* One anna collected in excess.
† Sixpies collected in excess.

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS. A. P.	RS. A. P.	
Malabar (Nilambúr).	Bamboos	13,022	390 10 7	390 10 7	II (*c*).
South Canara.	Timber	772	3,537 10 9	3,537 10 9	II (*a*).
	Firewood and charcoal	7,523	1,70,025 5 7	17,025 5 7	II (*b*).
	Bamboos	53,998	753 0 2	753 0 2	II (*c*).
	Other minor produce	..	4,206 14 8	4,206 14 8	II (*e*).
	Total of the District ..	..	25,522 15 2	25,522 15 2	
	Grand Total .. II (*a*)			72,864 2 5	
	II (*b*)			1,65,332 5 9	
	II (*c*)			57,395 6 4	
	II (*d*)			7,914 0 11	
	II (*e*)			1,35,443 5 1	
	Total ..			4,38,949 4 6	

ANNUAL FORM NO. 73.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Timber and other Produce at Sale Depôts for the Year 1885-86.

District.	Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs. A. P.			Rs. A. P.	Rs. A. P.	Rs. A. P.	
Chingleput	....	..	..	..	..	..	..	..	..	
North Arcot	Redwood roots and stumps.	Tons 95	lb. 1,960	1,150 8 0	..	..	..	..	1,150 8 0	
	Casuarina fuel	,, 137	,, 1,960	275 12 0	160	1,656	321 8 0	45 12 0	..	
	Sandalwood	,, 13	,, 588	1,061 3 2	11	812	909 0 0	..	152 3 2	
	Total ..	..	..	2,487 7 2	..	..	1,230 8 0	..	1,256 15 2	
South Arcot ..	Maruthai	1	28	21 0 0	..	..	..	..	21 0 0	
	Namai	27	87	59 0 0	103	366	180 0 0	121 0 0	..	
	Véngai	1	2	2 0 0	..	..	..	..	2 0 0	
	Satin	..	..	..	4	9	6 0 0	6 0 0	..	
	Iruvadi	..	..	..	9	35	18 0 0	18 0 0	..	
	Selai	..	..	..	16	54	28 0 0	28 0 0	..	
	Vémbu	..	..	..	3	10	5 0 0	5 0 0	..	
	Sandalwood	lb. 1,064*	..	143 0 0	lb. 1,778	..	200 0 0	57 0 0	..	* In last year's return 1 ton, 1,624 lb., value Rs. 363.
	Honey	..	..	..	39	..	9 0 0	9 0 0	..	
	Total ..	..	..	225 0 0	..	..	446 0 0	221 0 0	..	
Salem	Áchá	79	184⅔	182 0 0	98	263⅔	316 0 0	134 0 0	..	
	Selavunjai	9	54	43 0 0	9	54	43 0 0	..	..	
	Borassa	..	..	..	1	1⅓	2 0 0	2 0 0	..	
	Véngai	..	..	..	24	78⅔	102 0 0	102 0 0	..	
	Iruvadi	..	..	..	1	5	6 0 0	6 0 0	..	
	Teak	72	9⅓	10 0 0	..	..	..	..	10 0 0	
	Sandalwood	Tons 37	lb. 1,817	14,979 0 0	Tons 2	lb. 297	853 0 0	..	14,126 0 0	The stock of sandalwood was not replenished owing to scarcity of ripe wood. Hence the decrease.
	Total ..	..	..	15,214 0 0	..	..	1,322 0 0	..	13,892 0 0	
Trichinopoly ..	Casuarina poles	47	..	17 12 0	29	..	3 10 0	..	14 2 0	
	Firewood	Tons 33†	lb. 1,709	89 7 0	Tons 77	lb. 2,041	308 0 0	218 9 0	..	†The closing balance of last year was 28 tons and 1,261 lb., the District Forest Officer having omitted to take into account 5 tons and 448 lb.
	Total ..	..	..	107 3 0	..	..	311 10 0	204 7 0	..	
Tanjore	....	..	..	..	..	..	..	..	..	

Abstract showing the value of Timber and other Produce at Sale Depôts for the Year 1885-86—*continued.*

District.	Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs. A. P.			Rs. A. P.	Rs. A. P.	Rs. A. P.	
Coimbatore North ..	Teak	..	..	..	9	40½	30 0 0	30 0 0	..	
	Sandalwood	..	..	..	lb. 1,995	..	249 0 0	249 0 0	..	
	Total ..	..	..	..	..	..	279 0 0	279 0 0	..	
Coimbatore South ..	Teak	481	9,916	6,507 0 0	389	8,964	6,538 0 0	31 0 0	..	
	Rosewood	380	6,150	4,549 0 0	272	4,341	2,170 0 0	..	2,379 0 0	
	Junglewood	1	28	11 0 0	3	78	20 0 0	9 0 0	..	
	Total ..	862	16,094	11,067 0 0	664	13,383	8,728 0 0	..	2,339 0 0	
Madura	Firewood	Tons 131	lb. 1,085	469 0 0	Tons 106	1,143	264 12 0	..	204 4 0	
Tinnevelly	Miscellaneous	337	357	250 0 0	436	998	1,314 0 0	1,064 0 0	..	
	Planks	9	27	41 0 0	69	112	67 0 0	26 0 0	..	
	Tánikai	Tons 11	lb. 358	256 0 0	lb. 687	..	8 0 0	..	248 0 0	
	Total ..	..	..	547 0 0	..	..	1,389 0 0	842 0 0	..	
Malabar (Wynaad and Pálghat).	....	..	..	..	..	..	..	..	..	
Malabar (Nilambúr).	Teak saplings	839	..	1,400 0 0	119	..	56 0 0	..	1,344 0 0	
	Bamboos	105	..	3 8 0	..	..	..	..	3 8 0	
	Total ..	..	..	1,403 8 0	..	..	56 0 0	..	1,347 8 0	
South Canara ..	Teak	32	646¼	888 0 0	33	666¼	900 0 0	12 0 0	..	
	Blackwood	1	13	13 0 0	3	35½	43 0 0	30 0 0	..	
	Wild jack	5	116¾	88 0 0	2	26	20 0 0	..	68 0 0	
	Jack	6	85½	64 0 0	2	23½	19 0 0	..	45 0 0	
	Banapu	6	69¼	43 0 0	19	322	260 0 0	217 0 0	..	
	Miscellaneous	21	323	166 0 0	52	1,185¾	750 0 0	584 0 0	..	
	Total ..	..	..	1,262 0 0	..	..	1,992 0 0	730 0 0	..	

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of elephants in the Southern Circle during the year 1885-86.

PART I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
				Rs. A. P.	
Wynaad and Pálghat.	Chloe	Purchased in January 1878.	Per head ..	27 13 4	
	Phyllis ..				
	Lutchmi ..	Transferred from Mudumalai in May 1881.			
	Sankara ..				
Nilambúr ..	Vixen	Transferred from Wynaad in 1882.	Per head ..	44 10 0	This is due to increased supply of provisions and adjustment of charges of the previous year on account of elephants purchased from Mr. Morgan.
	Peyroo				
	Sampson ..	Purchased from Mr. Morgan in 1884.			
	Eva	*Vide* sanction order of the Conservator of Forests, Southern Division, No. 2685, dated 25th March 1886, which applies retrospectively from 14th November 1884.			

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
				Rs. A. P.	
Wynaad and Pálghat.	(*a*) Sultan Sha or Tusker.	Captured on the 4th May 1885.	Per head.	34 12 1	(*a*) Maintained for seven months.
	(*b*) Ranee ..	Captured on the 13th June 1885.			(*b*) Maintained for nine months.
Nilambúr ..	(*a*) Theebaw ..	Captured on the 3rd January 1886.	Per head.	25 3 5	(*a*) Maintained for three months.
	(*b*) Lucy ..	Captured on the 15th February 1886.			(*b*) Maintained for one and half months.
	(*c*) Juno ..	Captured on the 17th February 1886.			(*c*) Maintained for one and half months.

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		How disposed of.
				Rs. A. P.	
Wynaad and Pálghat.	(*a*) Sunda or Kunjoo.	Transferred from Coimbatore in 1882.	Per head.	18 6 5	(*a*) *Died on the 4th July* 1885.
	(*b*) Ranee.	Captured.			(*b*) Died on the 4th May 1885.
	(*c*) Nilli.	Do.			(*c*) Died on the 24th September 1885.
	(*d*) Sultan Sha or Tusker.	Do.			(*d*) Died on the 19th December 1885.
Nilambúr ..	None ..	None.			

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE NORTHERN CIRCLE, MADRAS,

FOR THE YEAR 1885-86.

CHAPTER I.

Introductory Remarks.

As in previous years, the chief work of the year has been in the selection of forests for reservation. The following was the chief work done:—

Godávari.—Selection by Mr. Battie, Assistant Conservator in Lakkonda, Juddengy and Tótapalle.

Nellore.—Selection of reserved forests and village forests in the plains taluks by Mr. Vincent.

Cuddapah.—Selection of areas to complete the full proposals for reserved forests in Cuddapah.

Kurnool.—Selection of reserved forests commenced in the Yerramalais by the Conservator and District Forest officer, Mr. Sim.

Anantapur.—Selection of reserved forests by Mr. Lodge, District Forest officer.

Nílgiris.—Selection of reserved forests by the Conservator in Paranginád and arrangement of village forests in the same by the Collector, Conservator and District Forest officer.

2. It will be useful here to put on record the work done in the last three years in the selection of reserved forests—the most important work we have to do and the one on which all real progress hinges.

3. The following schedule gives the state of affairs district by district:—

District.	Work done.	Work still to be done.
Ganjam	*Goomsur taluk.*—A valuable series of reserved forests mostly containing good sál timber. *Berhampore taluk.*—A few good areas in the Mohiri hills. Several areas of waste land for fuel and fodder reserves or their equivalent in reserved forests. *Chicacole taluk.*—A few areas of waste lands for fuel and fodder reserves or their equivalent.	*Agency tracts.*—Selection of good areas both for protective purposes and for timber; their demarcation and reservation.

District.	Work done.	Work still to be done.
Vizagapatam ...	*Sarvasiddhi taluk.*—Selection of a series of waste land pieces for reservation.	*Pálkonda taluk.*—Final and definite selection of reserved forests under the proposals made by the Conservator.
		Golgonda taluk.— Do. do.
Godávari ...	*Rékapalle-Bhadráchalam taluks.*—The selection of a proper series of good reserved forests containing teak, ironwood and other trees of value.	*Rampa.*—Selection of reserved forests and general management of the vast area of ironwood jungle (can wait a while).
	Rajahmundry taluk.—Selection of a few large blocks of good forest in the Lakkonda muttah.	*Rajahmundry taluk.*—Selection of scrub forests near the town (done since close of year).
	Peddápuram taluk.—Selection of good areas for reservation in the Juddengy forests.	*Tuni taluk.*—Selection of areas for reservation in Tótapalle (done since close of year).
		Yernagúdem and Ellore taluks.—Selection of reserved forests from Government lands available.
		Cocanada division.—Reservation of coast forests already selected.
Kistna	*All taluks.*—Selection of reserved forests in improvement of the old reservations.	*Bandar, Répalle and Bápatla taluks.*—Reservation of coast forests already selected.
Nellore	*Veligonda hills.*—Selection of reserved forests on these hills and their outliers.	*Plains country in most taluks.*—Settlement of reserved forests and village forests (work in progress).
	Coast forests and plantations.—Selection of reserved forests; settlement progressing.	
	Kanigiri, Udayagiri and Chinnakurti hills.—Under settlement.	
Cuddapah ...	*All taluks.*—Selection of areas for permanent reservation, now, so far as is known, fully completed.	*Western taluks.* — Notification of babul forests and plantations; only small areas.
Kurnool ...	*Nallamalai* and *Veligonda* hills, embracing the country east of Nandyál, fully selected and under settlement.	*Yerramalai hills and Western taluks.*—Selection partly done, rest requires completion.
Bellary	*Adóni taluk.*—Selection of areas for reservation.	*Other taluks.*—Further areas to be finished under recent arrangements, chiefly in Kúdligi, Harpanahalli and Hospet taluks.
	Bellary taluk.—Selection completed.	
	Other taluks.—Selection partly done.	
Anantapur ...	*Muchukota.*—Forest notified and under settlement.	*All taluks.*—Selection of further reserves as for Bellary; work in progress.
	Penukonda and Hindupur taluks.—Some good areas selected and under settlement.	
Nílgiris	Selection of reserved forests now fully completed; also village forests for the plateau náds. A few areas still remain to be notified, but selection is all done. Maps nearly ready.	

4. It will be seen that the work still to be done is not very much. The Conservator hopes to see it nearly finished by the end of the current official year, but he is desirous of putting the results of the three years on record in case he should not be in India when the next annual report is written. He is looking forward to the time

when the preliminaries of forest selection, demarcation and settlement will be completed, when the heavy correspondence about them will have ceased, and when the officers of the department can settle down to the professional business of improving and working the Government estates.

5. During the year orders of Government have put a stop to the export of sál from the Government agency tracts of Ganjam.

CHAPTER II.

Areas and Boundaries.

6. Form No. 59 A shows the area of reserved forest under the Forest Act, section 16. It will be seen that it was 4,596 acres at the beginning of the year, that during the year 3,698 acres were added in Anantapur and 58,084 in Nílgiris, making the total at the end of the year 65,552 acres or 102 square miles. Form 59 B is omitted this year as it is the same as last, with the exception of the transfer of the following areas to form 59 A:—

		ACRES.
Anantapur ...	Gooty	331
Nílgiris ...	Benné	10,317
	Ootacamund plantations	447
	Coonoor do.	235

The form is now unimportant and its omission will reduce the amount of unnecessary returns.

7. The settlement work in Nílgiris progresses very satisfactorily; work in Cuddapah is now so far advanced that next year ought to see a large addition to the area of reserved forest; in Nellore the difficult settlement of Sríharikót is approaching completion and some other areas are finished; in Kurnool the western side of the Nallamalais awaits the result of the appeals against orders of the Forest Settlement-officer; in Ganjam and Anantapur the work progresses slowly; and in other districts it is almost at a standstill. The energetic prosecution of this settlement work is beyond the Conservator's power to further, though he has endeavoured to use his influence with Collectors in getting it pushed on. In Kistna, where the reserved forests were proposed in July 1884 and January 1885, nothing has yet been done, but this is probably due to a series of changes in the district revenue staff. As some of the Settlement-officers appointed do not submit the monthly progress reports required by the Board upon which and upon the diaries of District Forest-officers the Conservator relies for his information as to the progress of settlement work, he is unable to record progress very definitely.

8. The Conservator found it very useful to record in paragraph 31 of the annual report for 1882-83, paragraph 10 of that for 1883-84, and paragraph 8 of that for 1884-85, the list of "proposed reserved forests." Those added to the list during the year under review were the following:—

33. Nílgiri district.	Kundah	Notification No. 139 of 5th May 1885.
	Thiashola	
	Mikkeru	
	Hiriyashige	
34. Bellary district.	Rayadrúg	Notification No. 150 of 21st May 1885.
	Dharmapuri	
	Argupa	
35. Nellore district.	Rápúr Veligondas	Notification No. 164 of 10th June 1885.
	Udayagiri	
36. Do. ..	Nandanavanam	Notification No. 190 of 6th July 1885.
	Vedullacheruvu	
37. Do. ..	Yerrakondas	Notification No. 238 of 22nd August 1885.
38. Ganjam district.	Rangodo	Notification No. 311 of 2nd November 1885.
	Bainamari	
	South Mohiri	

39. Vizagapatam district.	Peddapalli	Vontikonda	Vuppalam	Notification No. 342 of 14th November 1885.
	Vemagiri	Kothuru	Kapilavathadukonda ..	
	Doppérla	Rajala	Alimetta	
	Vewakonda	Kalavalapalli	Baiyavaramkonda ..	
	Chimalapalli	Pothukonda	Kodurumetta	
	Ganimetta hill ..	Vakapadu	Panchadarlakonda ..	
	Nunabarthi konda ..	Velpukonda	Chodapallikonda ..	
40. Godávari district.	Mulkanapalli	Narakonda	Nialakota	Notification No. 18 of 19th December 1885.
	Chintagura	Pengha	Lakewaram	
	Dumagudiem	Upanapalli	Kanslur	
	Arlaguram	Tatlunka	Mitapali	
	Tunkicheruvu ..	Ramchandram ..	Pulsmamri	
	Bhadráchalam ..	Rapak	Walsugri	
	Gogubaka	Sitarampuram ..	Rékapalle hills	
	Komanpalli	Bhandarguriam ..	Marigura	
	Bandreo	Burkankota		
	Golagupa	Kaler		

9. The additions in *Ganjam* consist of three selected areas of 5,400 acres in the Mohiri hills in the Berhampore taluk and with those already notified in Goomsur complete the selections of reserved forests except as regards the agency tracts. In *Vizagapatam* the areas enumerated are small pieces, in the Sarvasiddhi taluk mostly very bare, but still capable of recovery under careful management with some artificial assistance.

10. In *Godávari* the areas chosen are those of the Rékapalle-Bhadráchalam taluks, to which, being scheduled districts, the Forest Act was extended during the year by order of the Government of India.

11. The additions in *Nellore* consist of the areas selected in the Veligonda and Yerrakonda hills; those in *Bellary* to the selections made in the Rayadrúg taluk; and those in the *Nílgiris* to the proposed forests of the Kundah nád.

12. *Demarcation.*—In *Ganjam* demarcation in the Mohiri and Suradá forests is completed except for some few villages which form enclosures. In the Mojagodo and Kurcholy ranges also it is progressing well. A sum of Rs. 1,293 was spent in all ranges, but the exact distance done has not been reported.

13. In *Vizagapatam* demarcation was only just begun at the close of the year in the Sarvasiddhi forests. In *Godávari* demarcation was started in the Rapak block, but the line was temporarily cleared at first so as to allow of speedy marking off in order that villagers might know it early and avoid claims relating to land outside such as are so frequently received at settlement. The cost of the eight miles done was Rs. 26, but the District Forest officer estimates that the whole cost including posts will be Rs. 26 per mile.

14. In *Kistna* and *Nellore* no demarcation has been reported, which is a matter for considerable regret. The work of settlement is enormously facilitated by previous careful demarcation in the Conservator's opinion.

15. In *Cuddapah* 119 miles of line were cleared at a cost of Rs. 2,253, or Rs. 19 per mile. Some of the lines, however, were in easy forest, others were roughly done only, and in others the boundary marks had not been permanently erected. The demarcation work completed up to date in *Kurnool* consists of the western side of the Nallamalais, cut regularly for the northern blocks and roughly for the southern, and the reserves so far selected in the Yerramalais. During the year only four miles were cut and the rest recleared. Up to date 57 miles have been done at a cost of about 100 rupees per mile, the high rate having been due to a mistaken notion that the line ought to be 30 feet broad. Line-clearing on the western side of the Nallamalais is heavy, but should not cost more than Rs. 30 per mile including posts and a breadth of 10 feet only.

16. In *Bellary* the demarcation of the eastern boundary of the Ramandrug block was completed in a substantial way by making it into a carting road Three and a quarter miles were done at a cost of Rs. 239, and the total length of the road is now $8\frac{5}{8}$ miles at a cost of Rs. 705, or about 82 rupees per mile, which is by no means dear for the work, with which the Conservator was pleased. The other demarcation done consisted of—

			MILES.	RS.
Sandúr range ...	Somlapur		2½	27
	Gund		5	24
	Bandri		17	34
Western do. ...	Sunkadakul		13	164
	Shivpur		2	32
	Sherbi		4	6
Bellary do. ...	Tornagul		3	27
	Ráyadrug		6½	9
		Total ...	53	323

or about 6 rupees per mile, but then clearing of jungle is easy in Bellary. In the *Anantapur* district, part of the Muchukota forest boundary, 34½ miles in length, was demarcated at a cost of Rs. 176, twenty feet broad. In Narsimpalle reserve 6 miles were done and 35 pillars erected at a cost of Rs. 69, while in Amagundapaliem and Somarazmalai 7½ and 6 miles were done at a cost of Rs. 77 and Rs. 53, respectively. The average cost is therefore for 54 miles nearly Rs. 7 per mile.

17. In the *Nílgiris* demarcation work has gone on well, though some of the work done was not quite as thorough as it ought to be. That is, some of the lines inspected by the Conservator were only slightly cleared and some of the posts put up were insufficiently conspicuous and strong. The following was the cost of the work done:—

	Distance.	Posts.	Cost.
	MILES.	NO.	RS.
Ootacamund range	55	918	649
Coonoor and Melúr ranges	191	905	1,244
Naduvatam range	132	2,586	1,382
Mudumalai and Sígúr ranges	72	491	583
Total ...	450	4,900	3,858

or Rs. 8·6 per mile.

18. In demarcation work the cost varies according to the country in which work is carried on and the thickness of the growth. In the Nallamalais of Kurnool and the lower parts of the Nílgiris it may reach Rs. 30 to Rs. 50 per mile; in localities like the east of Cuddapah it might come to about Rs. 15 to 30, while in dry, bare country or on grass land it would naturally be less than Rs. 15.

19. *Reserved lands.*—The list of reserved lands is given in form 59 C. It shows but little alteration from that of the previous year, the area being merely reduced from 3,593 square miles to 3,557 square miles. The fact is that until the reserved forests are settled and such village forests as can be made available also set aside, it will not be possible to define very accurately the "reserved lands." Indeed, in the Northern Circle this category will nearly disappear. In Bellary the proposals made by the Collector, Mr. Galton, after consulting the Conservator have led to orders having been passed to reserve permanently a large proportion of the waste land area and leave the rest for the continuation of the previously conceded privileges of grazing and cutting. The department will then be able to concentrate its energies on the improvement of the vegetation of the reserved forests and the growth of fuel and grass. Similar arrangements were approved for the western and southern parts of Cuddapah and will probably also be adopted for Anantapur and Western Kurnool. In the Nílgiris nearly the whole available area has been made into reserved forest and village forest. In the Northern Circars also—Ganjam, Vizagapatam and Godávari at any rate—there need be no necessity for constituting many, if any, areas reserved lands; while in Kistna, Nellore and Eastern Kurnool and Cuddapah after the selection of the reserved and village forests there will be probably a few large areas for reserved lands, but none of any great consequence. The areas which are given in the form as actually being reserved lands are mostly proposed reserved forests and will gradually be transferred to form 59 A.

20. *Village forests.*—In paragraph 25 of last year's report the rules for the Nílgiri village forests were given. They have now been revised and are herewith given in correction of the former ones:—

Subsidiary rules under rule 7 of the rules framed by the Governor in Council under section 26, Act V of 1882.

(1) No person shall cut any trees, or gather any fuel, grass, fruit or other forest produce, or graze any animals or permit any animals to be grazed in any village forest unless he has been authorized by the Collector, in writing, so to do.

(2) No person shall cut any trees in a village forest except on a permit granted by the monegar, who shall first inspect and mark the trees to be felled. Permits should not usually be granted for felling saplings or growing trees, and great care should be taken in felling full-grown trees not to injure young timber growing under them.

(3) No person shall graze any goats or permit any goats to be grazed in any village forest.

(4) No person shall be allowed to cut more wood, or gather more fuel, grass, fruit, &c., than is required for his domestic use.

(5) No person shall sell any wood, fuel, grass, &c., gathered in a village forest except to persons entitled to cut or gather such wood, fuel, grass, &c., under these rules.

(6) Grazing may be stopped by order of the Collector in any village forest, if it should be necessary to do so for the purpose of protecting young trees and coppice. Such order shall be published in the District Gazette and a copy thereof shall be posted at the village chavadi or at some other conspicuous place in the village and shall come into force on a date to be fixed therein not being less than one calendar month after publication as aforesaid. From and after such date no person shall graze any animals or permit any animals to be grazed in such village forest.

(7) All disputes amongst villagers regarding the produce of village forests and appeals against refusal of the monegar to grant a permit under rule 2 shall be settled by a panchayet consisting of the monegar, curnam and three of the principal ryots of the village not concerned in the dispute or the matter in appeal. The curnam shall record the decision of the panchayet in a book to be kept for the purpose, and the decision shall be final.

(8) Except as provided in rule 7, the monegar will be held solely responsible for the conservancy and proper management of the village forests within his village limits, and it will be his duty to report all breaches of these rules to the Deputy Tahsildar through the Revenue Inspector.

(9) Whoever contravenes any of the provisions contained in rules 1, 2, 3, 5 and 6 will be liable, on conviction before a Magistrate, to be punished with imprisonment for a term which may extend to one month, or fine which may extend to one hundred rupees, or both.

21. The village forests for Paranginád, Merkunád, Kundahnád and Tódanád in the Nílgiris have been selected and during the current year will be made over to the monegars. It is expected both by the Collector and the Conservator that the Badagas will take an interest in them, manage them carefully and replant blanks. Selection in Cuddapah and Nellore is in progress.

22. *Leased forests.*—The area is given in form 59 D, the alteration being due to the rectification of the area of Mudumalai.

During the year proposals were received by Government from the Collector of Vizagapatam relative to the lease of some of the better areas of forest in the Jeypore zemindari or their management by Government on the zemindar's behalf. There is no doubt but that some such arrangements will be most useful, both for the protection of streams and the supply of big timber, but how it is to be done when the staff of officers is so small is the difficulty. The Conservator has submitted a report on the matter to Government.

The results of working in the leased forests are recorded under the proper heads further on.

23. In their review on last year's report the Government of India asked for a tabular statement of the progress of settlement of different classes of forest. The following gives a fair idea of the state of things :—

Circle.	Reserved forests under Act V of 1882.	Reserved forests under previous orders.	Leased forests.	Reserved lands.
	SQ. M.	SQ. M.	SQ. M.	SQ. M.
Northern	102	802	136	3,557

The Conservator regrets his inability to give the area of unreserved land with any approach to accuracy.

CHAPTER III.

SURVEYS, WORKING PLANS, AND PLANS OF OPERATIONS.

24. *Surveys.*—The chief work done towards forest maps was the careful entry of all reserved and village forests on the village maps of the Nílgiris and the record was nearly completed. Separate maps for the Cuddapah reserved forests were also started; and arrangements with the Survey Department are in progress for the better supply of forest maps, especially in those districts which are not well supplied with one-inch taluk and topographical maps.

25. *Working plans.*—It is well here to explain how we stand in this matter. *Permanent* working plans are unfortunately as yet out of the question, because only a few forests have been settled and demarcated; a proper staff and professional officers cannot be spared; the question of supply and demand has not been accurately settled; fire-protection has not been assured; and sufficient information regarding the forests has not been obtained. Except the sál forests of Goomsur, the ironwood forests of Godávari, the valleys of the western side of the Nallamalais in Kurnool and some of the Nílgiri forests, we have no forests which are likely for a great many years yet to be worth elaborate working plans. Most of our forests have been much overworked, and that especially in respect to the sound and good timber; and the condition of the growth and of the surface soil is very poor. In the Conservator's opinion, therefore, we must wait some years before it is worth while to have a separate working plan party; and, in the meantime, we must collect statistics, make sure of protection from fires and, wherever necessary, from cattle; and endeavour by careful improvement thinnings to obtain a better quality of growth. In order to effect these thinnings, *preliminary* working plans are being started wherever possible, as for instance in the Nílgiri sholas, in Mudumalai and Sandúr leased forests, and in the Goomsur sál forests. Working plans of a rather more advanced character have been made for the Nílgiri plantations, the Nellore casuarina plantations and the Ballipalle evergreen fuel reserves.

26. The preliminary working plan for the Sandúr leased forests allows of merely improvement thinnings over the whole of the forests during the next fifteen years, taking one compartment each in the three working circles. The Conservator regrets to find that the orders were not carried out, and that only part of a compartment in Ramandrug was done. He trusts that another year the orders will be fully and carefully attended to. The District Forest-officer reports that the coppice growth on the area thinned last year is doing well. It would seem that the cost of thinning what was done and stacking the fuel came to about 12 annas per ton. There is but little demand, curiously enough, in Sandúr. The District Forest-officer says that the railway companies, cotton-press managers and others prefer tamarind and babul wood, but the Conservator has always understood that the railway companies refused to accept babul wood. However this may be, there is no doubt of the fact that tamarind and other fruit trees are being destroyed, for piles of wood, chiefly tamarind and margosa, may be seen at the railway stations, and it is difficult to know where they could have come from except from villages. As the destruction is chiefly in the Adóni, Alúr and Bellary taluks, the driest and barrenest in the presidency, it is much to be regretted.

27. The yield of the Sandúr leased forests was as follows:—

Teak poles	425
Bamboos	32,123
Firewood	1,258 tons
Charcoal	14 maunds
Brushwood	460 loads
Myrabolams	103 maunds
Tamarind	43 „
Grass	5,347 cart-loads

and some gums, honey and wax.

28. In the Ballipalle working circle in Cuddapah the following is the plan of cuttings for the first ten years :—

1882-83	1 *a*	3 *a*
1883-84	5 *b*	6 *b*
1884-85	4 *a*	2 *b*
1885-86	1 *c*	8 *b*
1886-87	3 *c*	7 *b*
1887-88	1 *b*	5 *a*
1888-89	9 *a*	7 *a*
1889-90	2 *a*	6 *a*
1890-91	3 *b*	9 *b*
1891-92	8 *a*	4 *b*

The working plan was carried out and compartments 1 *c* and 8 *b* cut over, leaving as many standards as would be found fit for keeping. The result of the cuttings was—

—	Area.	Engine fuel.	Small fuel.	Total.
	ACRES.	TONS.	TONS.	TONS.
1 *c*	13	220	122	342
8 *b*	45	320	253	573
Total ..	58	..	..	915

or about 16 tons per acre and compartment 10 of the previous year was completed giving 167 tons of fuel. The cuttings of the last four years have given therefore—

	Area.	Tons.	Per acre.
1882-83	50	562	$11\frac{1}{4}$
1883-84	55	907	$16\frac{1}{2}$
1884-85	$46\frac{1}{2}$	1,002	$21\frac{1}{2}$
1885-86	58	915	16

or an average of 16 tons per acre. The coppice growth is coming on well in some places, in others it is rather backward. The Conservator is by no means sure that it will not be better to clear and replant instead of to treat this forest in coppice, but he would like to see the results of a few more years' cuttings before finally deciding. The larger compartment cut this year was mostly deciduous forest and the yield therefore not so good as from evergreen.

29. The account of the working plan of the Nellore casuarina plantations is best given in Mr. Vincent's own words :—

"A working scheme has been drawn up for the casuarina plantations for the years 1884 to 1897, of which the details are given below :—

Year of felling.	Areas to be cleared.	ACRES.	
1884.	Dugarázpatnam	65	
„	Pakala and Binginipalle	10	
„	Sending detached plantations	27	
			102
1885.	Tamenapatam	137	
„	Iskapalle	6	
„	Kanuparti	4	
			147
1886.	Vutukur	32	
„	Varany...	120	
			152
1887.	Kottapatam		120
1888.	Dugarázpatnam	36	
„	Tamenapatam	32	
„	Kottapatam (Ongole taluk)	33	
„	Kanuparti	36	
			137
1889.	Vutukur	112	
„	Tummalapenta	43	
			155

Year of felling.	Areas to be cleared.	ACRES.	
1890.	Varany	120	
„	Ramapatam	33	
			153
1891.	Tamenapatam	...	171
1892.	Dugarázpatnam	...	167
1893.	Kottapatam	150	
„	Dugarázpatnam	40	
			190
1894.	Dugarázpatnam	53	
„	Tamenapatam	179	
			232
1895.	Dugarázpatnam	80	
„	Tamenapatam	*162	
			242
1896.	Dugarázpatnam...	70	
„	Vutur	† 32	
„	Varany	‡124	
			226
1897.	Dugarázpatnam	60	
„	Kottapatam	§249	
			309

* Of this 137 acres coppice.
† Coppice.
‡ Of this 120 acres coppice.
§ Of this 152 acres coppice.

"In drawing up this scheme the normal age for clearing was taken as ten years, both for original and coppice growth. But as owing to scarcity of labor no annual extensions of more than 60 acres can be made at any one place, the normal age for clearing cannot be kept to when over 120 acres are cut yearly, unless we are prepared to cut in several places in the same year. Working with a couple of miles of tramway, which is required for eight months annually at Sríharikót, this would obviously offer some difficulty, and it has therefore been arranged to clear some plantations when only eight years old, and to leave others for fifteen years. This arrangement will afterwards give no large blocks of coppice of one age.

"The difficulty of keeping to the normal age, when our object is to provide a steady and gradually increasing supply of firewood—not to flood the market one year and starve it the next—is increased by no large extensions having been made from 1876 to 1879."

30. The working plans for the Nílgiri blue-gum plantations are very simple. That for the Coonoor peak working circle was given *in extenso* in last year's report. The Conservator regrets to say that again the working plan was not carried out owing to the large amount of wind-fall wood still on hand. The Ootacamund plantations are distributed in three working circles—

1. Aramby.
2. Cairn hill.
3. Governor's shola.

31. The Aramby working plan is under revision and will be submitted next year and indeed before that with an inspection note. It requires revision on account of changes in the areas and designation of the compartments. Two compartments were cut during the year, viz.:—

—	Area.	Yield.	Belt trees.	Total.
	ACRES.	TONS.	TONS.	TONS.
I *b*	5	565	100	665
V *b*	5	422	133	555
Total ...	...	...	...	1,220

or 122 tons per acre. A small area of about one acre of shola was also cut giving 66 tons of wood.

32. The working circle of Cairn hill, map of which has just been published, contains—

	ACRES.
Shola	152
Grass	103
Swamp	3
Blue gum	90
Acacia	25
Conifers	26
Others	4
Roads	2
Total ...	405

The working plan for block IX, 53 acres, *Eucalyptus Globulus*, is as follows:—

	Compartment.	Area. ACRES.
1884	2	4¼
1885	4	7
1886	7	6
1887	1	5
1888	3	4
1889	5	5⅓
1890	9	4⅓
1891	6	4
1892	8	6⅓
1893	10	6¼
Total ...		53

As shown in last year's report, compartment 2 was cleared in 1884, yielding 412 tons. Last year compartment 4 was cleared and gave 546 tons on seven acres. Estimating the shelter belt at 104 tons, this amounts to 650 tons or 93 tons per acre. Part of this compartment was only thinly stocked with a small species of Euculyptus, name not known. For the two together the yield has been for 11¼ acres 1,196 tons or 106 tons per acre. Mr. Hutchins estimated 105. Nine acres of shola also underwent improvement thinning, yielding 333 tons or 37 tons per acre. The saplings left as standards were nearly enough to restock the compartment alone and the coppice shoots, especially in the upper part, leave nothing to be desired.

33. The working plan for Governor's shola (*Eucalyptus*) is also under revision to a slight extent, necessitated by the completion of settlement and the advisability of altering the cuttings somewhat. During the year under review were cut—

	Area. ACRES.	Yield. RS.
Baikie, No. 2	10	507
Governor's shola, No. 3	7	703
Total ...	17	1,210

excluding the shelter belts. They were not quite finished during the year.

34. In the Mudumalai leased forest, block 2, Tippakadu, was gone over with improvement thinnings. The number of timber trees obtained was teak 183, blackwood 60, vengai (*Pterocarpus marsupium*) 118, mutti (*Terminalia tomentosa*) 35. The other trees and small wood thinned out is, under the lease, the property of the Tirumalpad of Nilambúr, unless he does not require it, when it will be sold for Government. Block 3 will be commenced at once for 1886.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

35. (a) *Establishments, ranges and beats*—(1) *Superior staff.*—This consisted at the close of the year of—

One Conservator	... ...	Mr. Gamble.
Four Deputy Conservators	... ...	Messrs. Higgens, C.S., Vincent, Hooper (on furlough), Colonel Jago.
Seven Assistant Conservators	... ...	Messrs. Brougham, Lushington, Battie, Homfray (Acting Examiner of Forest Accounts), Lodge, Sweet, Leresche.

The two losses having been Mr. H. A. Sim, C.S., retransferred to the Revenue Department and Mr. Boileau deceased.

Mr. Vincent was promoted to be a Deputy Conservator, second grade, and Mr. Lushington to be Assistant Conservator, first grade, during the year.

36. (2) *Subordinate staff.*—Mr. C. Toussaint passed successfully out of the Forest school, obtaining the ranger's certificate; Mr. Tweedie failing to do so.

The staff was as follows at the end of the year, showing but little alteration for 1884-85:—

District.	Office establishment.		Forest establishment.				Total.
	Clerks.	Peons.	Sub-Assistant Conservators.	Forest rangers.	Foresters.	Forest guards.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Conservator's office	315	56	..	..	..	..	371
Ganjam	45	58	..	180	60	122	465
Vizagapatam	20	40	200	50	20	68	398
Godávari	45	34	150	50	65	84	428
Kistna	65	70	..	130	120	282	667
Nellore	100	64	..	160	145	330	799
Cuddapah	100	102	..	280	150	428	1,060
Kurnool	75	90	..	150	115	206	636
Bellary	40	46	..	50	105	216	457
Anantapur	40	46	..	50	65	138	339
Nilgiris	100	81	..	100	165	244	690
Total ..	945	687	350	1,200	1,010	2,118	6,310
Forest school ..	..	..	200	..	30	..	230
Balance saved ..	..	..	500	125	60	..	685
Grand Total sanctioned ..	945	687	1,050	1,325	1,100	2,118	7,225

Ranges and beats.—No particular alteration took place during the year. After the constitution of the reserved forests the ranges and beats will require modification. Till then, it will not be possible, with any accuracy, to give the areas controlled.

37. (b) *General protection and breaches of Forest rules.*—Form 63 shows the prosecutions for breach of forest rules during the year. The number of cases was 848, making with 78 pending cases 926 cases in all. In 635 cases convictions were obtained, 225 representing acquittals and 66 cases pending at the end of the year. The percentage of convictions was best in Nilgiris 95 and Vizagapatam 93. In Cuddapah and Godávari it was 86, in Kurnool 81, in Anantapur 70, in Ganjam 65, in Kistna 60, in Bellary 52, and in Nellore 41.

38. The cases in *Ganjam* were unimportant with one exception. The exception was the prosecution of the sirdar of Baibali for the theft of 100 sál trees. The evidence against the sirdar proved insufficient, but the cartmen were punished.

The *Vizagapatam* cases chiefly occurred in the Pálkonda range and in *Godávari* in the lower taluks. Most of the cases in *Kistna* occurred in Palnád; they were, as were also those in *Nellore*, only petty cases, and nothing special is recorded of them.

39. The cases which occurred in *Cuddapah* were mostly in the Pullampet, Cuddapah and Badvél taluks, and the large proportion of convictions shows the care taken to avoid prosecutions on insufficient evidence. It is worth note that in spite of the great difficulty which exists in proving cases of wilful firing of the forests several

convictions were obtained. The District Forest officer acknowledges the assistance given him in protection by Police officers and village officers. In *Kurnool* the chief cases were three in which contractors for the Bellary-Kistna State Railway were prosecuted for unlawful cutting and sentenced to fines of Rs. 100, Rs. 50 and Rs. 50, respectively. These cases of theft by railway contractors have given a great deal of trouble; they are due to the contractors and maistries having taken advantage of the difficulty the department has in watching so long a length of line through Government forest and the supposed support of the Railway officers, but the results, due to Mr. Sim's energy, have been satisfactory, and have taught them that rules must be obeyed. Other cases in Kurnool were merely petty ones. The District Forest-officer acknowledges the help received from Revenue officers. In *Bellary*, *Anantapur* and *Nílgiris* the cases were for petty misdemeanours and require no special remark.

40. The number of cases compounded during the year was 146, most of them in Kistna and Cuddapah. The amount realized was Rs. 482. The details are given in form 63.

41. *Forest fires and fire-protection.*—This year, instead of giving results for a fire season which really would in most years be short of the usual time, the results are given for the year. It is still not quite a satisfactory change, and the Conservator thinks that a special report on the 1st October would probably be more suitable as by then fires would everywhere be over. And he doubts the possibility of really using or altering form 63 so as to show accurately and usefully the results of a year. This year fires have ended almost everywhere on or about June 1st, but it is the exception that they should do so. They were bad in all districts, especially in the Nílgiris, Cuddapah and Bellary, during April and May. In Cuddapah some important forests were burnt which had been protected the previous years, and the consequence was that owing to the accumulation of dry material the fires were worse than usual, after the close of the year, though for the actual financial year results were very good.

42. In Ganjam there were no fires to speak of during the year, though there were many after its close. The District Forest-officer remarks on the small damage they do in sál forest. It certainly is true that there are only the dead leaves to burn, but the scorching of the soil and the destruction of the leaves and humus is not a good thing.

43. The Collector of Godávari reports that nothing was attempted and that several fires occurred. As demarcation, however, is now progressing some special areas must now be taken in hand, the first being Bhadráchalam, Rapaka and Mitapali in the upper taluks and one or two selected areas in the lower. In Vizagapatam also nothing was done. From the District Forest-officer's report it would seem that it is only in the agency tracts that fires are likely to happen. Indeed, all through the three Northern Circar districts the low country has very little grass and its protection is easy. What usually gets burnt are the slopes of the hills and especially those which have been cultivated in kumri and on which, through grazing or other causes, reproduction of trees has not been good.

44. The Collector of Kistna reports no fires as having occurred during the year. As usual, the Collector of Nellore states that the fires which occurred in the Veligondas came from the Cuddapah side, but that there were only two before the end of the official year. Since then many others have happened.

45. As already noted, fire-protection in Cuddapah was fairly successful up to April 1st, but after that fires were very severe and the season has probably been one of the worst known. The grass dried very early and the heat was much greater than usual. The fact that so many special blocks were burnt points rather to the necessity for reduction of their number and concentration of work on a few only and in those taking more stringent measures. The Conservator will give this matter his attention; but in fire-protection, as in most other works, real progress is impossible till the reserved forests are settled and demarcated and finally set apart. The Collector remarks on the probability of many incendiary fires, and attributes them to a great extent to the stoppage of goat-grazing in the special areas, and the desire of the owners to retaliate. In Kurnool also fires have been bad, about one-half of the Nallamalais having been burnt. In the special area 1,500 acres were burnt.

46. In Bellary the area protected amounted to 8·8 per cent. of the areas attempted. The worst fires were in the Donemalai block where nearly the whole was burnt after the year. That block was not under special protection. The 5,100 acres burnt were all in the north-eastern block, Rámandrug block having escaped. The Collector's report states that while the Sandúr villagers gave much assistance in putting out fires, the Government ones stood aloof and refused to help. From Anantapur it is reported that there were no fires up to April 1st, but no information is given of subsequent periods. It is known, however, that some heavy fires have occurred.

47. Up to April 1st there were very few fires in the Nílgiris, but after that date they have been numerous, though not so much in the protected areas. The Kullar forest was several times fired by travellers on the ghât road but quickly extinguished. The Jakanari slopes suffered very badly as did those below Naduvatam, and in the Kundahs a few sholas were badly scorched. In and about the settlements fires were comparatively few and no damage was done.

48. The general results (form 62) show for specially-protected areas—

Number of acres attempted.	Fires.	Number of acres protected.	Cost.
ACS. 369,561	14,553	ACS. 355,068	RS. 5,106

So that the area protected is 96 per cent. of that attempted and the cost per acre under 3 pie.

49. It is satisfactory that an early and heavy monsoon has now (June) put a stop to further fires, at any rate to fires likely to do much damage. But the hot season of 1886 must be recorded to have been the worst that has happened since this circle has been formed.

The Conservator has no information to add to that given by him in paragraph 49 of last year's report regarding areas which escape fire naturally.

50. *Grazing.*—In Ganjam and Vizagapatam no restrictions have yet been imposed and no fees collected. In Godávari Rs. 1,161 was collected in the upper taluks during the first five months of the year. The Collector reports (as he did last year also) that the collection was stopped in September 1885 by Government order, but the Conservator has no other information on the subject. He thinks it was a pity, for the chief cattle-owners are not, he believes, the Koyas, who generally own but very few cattle, and the introduction of large herds will not benefit the hill people, while it will have the effect of denuding the country.

51. The grazing in the Cocanada coast forests is sold by auction. In the Juddengy hills there is a good deal of grazing, but the cattle are from a distance and not the property of the ryots of the hill country. In Kistna the grazing sold for Rs. 34,008, which is little more than last year; that in Nellore was for the first time credited to "Forests" under recommendation of the Board. The principles on which grazing will be allowed in the future in the Cuddapah district were enunciated in recent orders of Government; and are, shortly, that in reserved forests whenever it can be done consistently with good forest management and with a maximum number of head of cattle per acre, areas will be opened for grazing on payment; that payment will be required in reserved lands; and that areas will be set apart besides for village forests and free village grazing. In respect to the grazing in Kurnool, there is nothing to add to the remarks made last year.

52. The Collector of Bellary reports that the proposed reserved forests were thrown open to grazing in consequence of the grass famine which prevailed, and that in consequence many cattle were saved that would otherwise have perished. They were again closed in December after rain had fallen. The leased forests were closed to grazing, but permits for grass-cutting were given and 5,347 cart-loads thus removed. The revenue was Rs. 2,005 from this source. In Anantapur all the reserved forests and proposed reserves were closed against grazing, but the removal of grass free was allowed everywhere and large quantities were thus taken.

53. In Nílgiris, the only forests closed against grazing so far have been the Cairn hill, Aramby and Governor's shola forests in Ootacamund and the Coonoor peak, Sim's park, Tiger hill, Ghât reserve and River reserve in Coonoor. Grazing was allowed on payment in the Dodabetta and Snowdon forests at Ootacamund and in the Lamb's rock and Blackbridge reserves at Coonoor. In all Rs. 53 were received. Elsewhere no restrictions have been placed on it, but it will now be necessary more definitely to settle the grazing arrangements and this will be more easily done when the village forests are made over to the monegars for management.

54. *Natural reproduction*.—The Godávari District Forest-officer remarks that the natural reproduction of ironwood in the forests of Lakkonda, Juddengy and Tótapalle is as good as it is in Rékapalle (see paragraph 62 of last year's report). The Nellore District Forest-officer reports that the growth in fenced areas in Sríharikót continues to improve and the grass to grow well besides. He has fenced a further area of 2,000 acres, but finds it very difficult to keep cattle from breaking through, some twenty head being actually inside and difficult to get out. Next year, however, we may hope to hear some good results from this fenced area. In Nellore the District Forest-officer gives an interesting account of the results of coppicing in the casuarina plantations, part of which is here reproduced :—

"Some important results have been gained during the year in fixing the right time to cut the casuarina for coppicing. At Dugarázpatnam about 24 acres cut in February and March 1885 have coppiced fairly. After heaping earth round the stumps, they were watered slightly during May and June, and although many of the shoots which come out six weeks or so after cutting were burnt up by the hot wind, the ground is now about half stocked.

"There also in June 1885 I cleared ten rows (about three-fourths of an acre) of the oldest and best plantation by way of experiment.

"Over two-thirds of the stumps have coppiced well and the ground is fully stocked with these and with the suppressed trees, which were formerly planted between the original rows and which I of course left untouched.

"At Tamminapatam I regret to record an almost complete failure to coppice after cutting the 133 acres which had to be cleared last year under the working plan. I selected the cool months before the rains as likely to give the best results, and although the felling lasted from September to the end of February, nearly all the work was done before the heavy rain began on 29th October. The stumps were left of various heights, great care was taken to preserve all branches within two feet of the ground. Most of the stumps sent out numerous shoots, but with scarcely any exception these withered away, being either drowned by water standing round the stumps or choked with excess of sap, the tops of all the stumps being covered with a dark green jelly which formed from the sap sweating out. The only stumps with healthy shoots are those cut in January and February, such few of the others as are now alive being unhealthy and likely, by all appearances, to die soon. The whole of the area cleared looks as if it had been swept by a fire, the rain having blackened the stumps and the leaves lying on the ground.

"After this experience it is evidently unsafe to cut from the beginning of September to the end of the year. Trees cut in June, July and August and in January and February may probably be expected to coppice well. The last two months should of course be avoided as the hot weather is rather trying.

On the whole the results seem to point to clearing clean and replanting after removing the stumps being a safer system of reproduction than coppicing.

55. The District Forest-officer of Cuddapah reports that the exclusion of goats from areas under special fire-protection is having a good effect, and that wherever the soil is fairly good, reproduction of red sanders, teak and *yellama* (*Anogeissus latifolia*) is good. Of course, reproduction will be slow in the Cuddapah reserves as the soil is so poor, but if fires can only be kept out and grazing checked the soil must improve and with it the growth of trees. He writes as follows regarding the coppice growth in the Ballipalle working circle :—

"The reproduction of the compartments hitherto cut over in Ballipalle working circle has varied considerably, partly in reference to the quality and degree of dampness of the soil, and partly in reference to the season of cutting. It seems probable that, for most species, a cutting during the rainy months gives the greatest chance of successful coppice growth."

56. The Collector of Bellary, in speaking of the opening of the proposed reserved forest to grazing, says that "he does not think much damage will result from cattle being allowed to graze in the reserves." In this apparently the District Forest-officer does not agree, nor does the Conservator in the case in point. Nearly all the proposed reserved forests in Bellary have at most only bushes or stunted trees on them, and seed reproduction is necessary. While the seedlings are growing, protection from cattle is

absolutely necessary; when they have grown sufficiently high, grazing may perhaps again be possible. It is greatly to be hoped that the future forests of Bellary, the basis of whose settlement has been now satisfactorily settled on paper, will be soon as equally satisfactorily settled on the ground and then a definite plan of operations can be made for the grazing as for the cuttings. The District Forest officer remarks, with reference to the growth of babul on black cotton soil waste lands, that the reproduction is good, but that on the poor soils the trees do not grow well; and says that if "large areas of good deep soil" could be got, babul forests could be speedily reared. It is little use crying for the moon: "large areas on good deep soil" are just the thing which the Forest department cannot get. Conservancy has begun so late in this circle that all such lands have long ago been taken up, and the department has now to content itself with the attempt to grow good trees on poor soil and to put up with a heavy expenditure when on better land a light cost would be sufficient. Such beautiful pieces of planting as the few acres of red sanders at Kodúr are only possible on very good soil, and though here and there in some of the Cuddapah valleys a few small patches of soil may be found, we can never hope to emulate in a sufficient area to make it a really valuable work, the plantation of 37 acres at Kodúr which has cost something like "Rs. 200" per acre. The only possible chance would be to buy land or lease land as at Nilambúr. Even if really good black soil land were available, it would probably be more advisable to give it for the cultivation of cotton or cholum than to grow babul, and so we must be content with doing our best with what we can get. The District Forest-officer of Anantapur reports favorably on the appearance of seedlings in the forests of that district and on the results of stopping the sale of bamboo for a time.

57. In the Nílgiris, the coppice reproduction in the compartments of shola cut at Aramby and Cairn hill has been very good. as has also that in the areas cleared in the Ghât reserve and Brooklands forest at Coonoor. It has been noticed this year that in the compartments cut in the blue-gum plantation at Governor's shola where the soil is very good and the weeds few, great numbers of naturally-grown seedlings have appeared. It is probable that blue gum will reproduce as well from seed as it does from coppice if only the ground is lightly hoed up after the fellings. This will be tried in the cuttings of the year at Aramby this season. The growth of blue-gum coppice continues to leave nothing to be desired.

58. *Artificial reproduction.*—The plantations in the Godávari district are reported in good order, but the cuttings ordered were not carried out. So much other work, however, of very considerably greater importance exists that delay will do no harm. The Godávari and Ganjam districts do not require plantations and all work should be concentrated on the demarcation and settlement of the fine natural forests and their gradual improvement and working. In the Kistna district six more "plantations" were got rid of during the year, the sales giving Rs. 610 for about 90 acres. The Collector reports that there were few or no trees in them, and perhaps this is why they have not appeared in the returns. The rest of the plantations appear to be in fair condition. Under the Collector's personal supervision a large nursery was formed at Masulipatam and an experimental garden of 46 acres made on the site of the old sepoy lines. A large variety of seeds was sown, the chief of which were the mahogany, of which 1,950 plants were reared and the small mahogany (*Swietenia pumila* of the Calcutta Botanical Gardens), of which there are about 100 plants doing well and growing fast. The mahogany were planted out in the 46 acres at about 54 feet apart, the spaces between being planted with margosa and other trees, and the results are said by the Collector to be most successful. The Conservator would like to have an area of some 500 to 600 acres at least planted. It is useless and a waste of money to make small experiments; the only way to really do any good is to make them on a sufficiently large scale. We have only too many small experiments of doubtful value on our hands as the relics of the jungle conservancy.

59. In the Nellore district the Iskapalle plantation, nominally 19½, really about 6 to 7 acres, was abandoned, the trees having previously been cut and sold. The yield was 107 tons, fetching Rs. 548. The older part of Allipuram plantation near Nellore was also cleared, yielding 139 tons fetching about Rs. 600 net. There was great difficulty in selling the wood in spite of the proximity of the plantation to

Nellore. It is only in Madras that casuarina wood finds a ready sale. The cocoanut garden in Kottapatam plantation was also given up as having proved unlikely to succeed except at a cost out of all proportion to the value of the trees.

60. The old plantations were carefully looked after and the cost of watering still further reduced. Mr. Vincent reports as follows :—

"The young existing plantations had of course to be kept alive, and I was compelled to water some of the three and four year old jungle conservancy plantations during May and June to prevent their dying out. This year some of them are already beginning to look yellow, but as it is a useless waste of money to water plantations after the fourth year, they must take their chance in future.

"The plantations of 1883, which are passing through their third hot weather, are now only being watered on high ground, and I hope that those now two years old, planted in November 1884, will not require watering at all next year. On the whole the plantations made in 1883, 1884 and 1885 are looking extremely well, especially those of the two latter years, and comparison may now be challenged both for size of the trees and cost with planting in the better soil and climate near Madras."

61. In respect to the pruning, he says :—

"I think it well to place on record that all the lower branches should never be cut off if the trees are intended to coppice later. Removing a few appears to promote the growth of small branches, which afterwards become useful coppice shoots, and the growth of these close to the ground appears to be still further encouraged by clearing the stem of branches for about 18 inches, beginining at a height of one foot from the ground. The wood obtained by doing this is sufficient to pay for the cost of the work."

62. The extensions of the year amounted to 80 acres, and the work was all done with basket plants. In Dugarázpatnam 30 acres were planted and blanks filled up. In Kottapatam also 30 acres were planted; and, in respect to the planting there done, the District Forest officer reports that he finds it best to do the planting in September, so that the plants get the full benefit of the monsoon afterwards. In Tamminapatam 10 acres were added, completing the available area at that place. Another 20 acres was planted at Chandrasikuppam on the coast of Sríharikót and the plants are doing well on 10 acres, the other 10 having been spoilt by the cyclone.

63. The total area of the casuarina plantations is now 2,004½ acres, and the expenditure of the year was Rs. 8,371. The average cost of the three chief areas viz., Dugarázpatnam, Kottapatam and Tamminapatam came to Rs. 79, 77 and 86 per acre, respectively. At the desire of the District Forest-officer, the following statement is given showing the area and cost of the different blocks up to date :—

Plantations.	Compartment number.	Area.	Year of planting.	Total expenditure up to date.	Cost per acre.	Yield—Thinnings dead-wood and selection fellings.	Clean fellings. Area.	Clean fellings. Tons.	Total.	Approximate net return. Rate per ton.	Approximate net return. Amount.	Remarks.
				Rs.	Rs.	Tons.			Rs.	Rs.	Rs.	
Dugarázpatnam	1	45	1873	10,131	225	199	9¾	152	351	6	2,106	Nine acres entirely cleared and partly replanted; ¾ acre coppice.
	Interplanted.		1874									
	2	26	1874	6,907	265	..	26	410	410	6	2,460	Clearedin 1884; stumps left to coppice on 20 acres.
	3	30	1875	6,448	215	..	30	754	754	6	4,524	
	4	59	1880	3,397	57	19	..	..	19	6	114	
	5	108	1881	4,416	41	25	..	..	25	6	150	
	1883	73	1883	2,162	29	..	..	..	..	..	..	Several compartments; this shows the whole area of that year.
	1884	60	1884	1,376	23	..	..	..	..	..	..	
	1885	30	1885	350	12	..	..	..	..	..	..	
	Ebrows.	19	Resumed by Government under tope rules.				19	498	498	6	2,988	Entirely cleared; replanted in 1884, cost being included above.
Kottapatam ..	1	24	1873	6004	250	74	..	..	74	6	444	
	Interplanted.		1874									
	2	24	1874	6,536	272	..	..	..	..	..	..	
	3	32	1875	6,170	192	..	..	..	..	..	..	
	4	40	1880	3,082	77	1	..	..	1	6	6	
	5	112	1881	4,407	34	2	..	..	2	6	12	
	1882	16	1882									
	1883	22	1883	826	37	..	..	..	..	..	..	Several compartments; this shows the whole area of that year.
	1884	37	1884	795	21	..	..	..	..	..	..	
	1885	30	1885	317	10	..	..	..	..	..	..	

Plantations.	Compartment number.	Area.	Year of planting.	Total expenditure up to date.	Cost per acre.	Yield—Thinnings, dead-wood and selection fellings.	Clean fellings. Area.	Clean fellings. Tons.	Total.	Approximate net return. Rate per ton.	Approximate net return. Amount.	Remarks.
				Rs.	Rs.	Tons.			Rs.	Rs.	Rs.	
Chattram ..	Resumed by Government under tope rules						..	115	115	6	690	Cleared in 1884 and abandoned.
Pamanji ..							..	169	169	6	1,014	
Taminapatam ..	1	45	1873	11,142	247	45	41	514	559	5	2,795	The whole cleared in 1885; stumps left for coppicing.
	Interplanted.		1874									
	2	59	1874	9,576	162	141	51	881	1,022	5	5,110	
	3	29	1875	7,878	271	150	22	488	638	5	3,190	
	4	64	1880	3,807	59	16	..	..	16	5	80	
	5	139	1881	5,862	26	22	..	..	22	5	110	
	1882	81	1882									
	1883	68	1883	1,642	24	..	..	..	..	..	..	Several compartments, this shows the whole area of that year.
	1884	30	1884	669	22	..	..	..	..	..	..	
	1885	10	1885	181	18	..	..	..	..	..	..	
	..	4	1875	Resumed under tope rules.			4	94	94	5	470	Stumps left to coppice.
Vutukur ..	1	32	1875	7,527	238	94	..	..	94	4½	423	
	2	32	1880	3,927	123	7	..	..	7	4½	31½	
	3	84	1881	4,512	54	8	..	..	8	4½	36	
Varany ..	1	40	1873	10,339	258	58	..	..	58	4½	261	
	Interplanted.		1874									
	2	40	1874	8,911	223	115	..	..	115	4½	517½	
	3	40	1875	8,108	202	92	..	..	92	4½	414	
	4	40	1880	3,188	80	10	..	..	10	4½	45	
	5	80	1881	4,064	50	12	..	..	12	4½	54	
	1883	2	1883	41	10	..	..	..	..	..	..	
	1884	2	1884									
Northern Plantations.												
Tummalpenta..	1	16	1873	12,676	294	20	..	..	20	5¼	105	
	2	13	1875									
	3	14	1878									
		43										
Ramapatam ..	1	11	1873	19,423	590	296	..	..	296	6	1,776	
	2	11	1875									
	3	11	1878									
		33										
Kottapatam ..	Old tope.	5	1868	14,549	440	30	..	..	30	5	150	
	1	8	1874									
	2	12	1876									
	3	8	1877									
		33										
Kanuparti ..	3			16,407	410	180	..	..	180	5	900	
	4											
	7	4	1873									
	8	36	1875									
	9											
	10											
		40										

Note.—The northern plantations are said to have been made by the Salt department provided with funds from jungle conservancy. This accounts for their enormous cost. The high cost of compartments 1 to 4 in the southern plantations is owing to watering having been carried on when there was no necessity for it in order to utilize the budget credits. These figures include all expenditure except the forester's pay.

64. The District Forest officer of Cuddapah reports some damage to the Kamalápuram plantation from caterpillars. In about 26 acres 11,000 palmyra seeds were sown which are coming up. In other parts Vepa (*Melia indica*) and Dirisanam (*Albizzia Lebbek*) seedlings were planted out. The first attempt to grow Tangedu (*Cassia auriculata*) artificially was as reported last year in the Pullampet plantation. This year 38 acres of the plantation area were sown after ploughing partly broadcast, partly in furrows behind the plough. The broadcast sowings have been very successful. An attempt was made to utilize the natural grown seedlings of Red sanders which come up so profusely in the Kódúr plantation by basketting them and planting them out at Ballipalle. Careless work and want of supervision by the ranger led to the loss of many of them. Some more have been got ready for planting

this season, and the work will be continued. With care it should be a cheap method of restocking blanks. The usual measurements on 1st April were made in this plantation. The increase compares as follows with previous years :—

			Differences.
1st April 1883	...	17·88	0·40
1st „ 1884	...	18·28	
1st „ 1885	...	18·75	0·47
1st „ 1886	...	19·02	0·27

giving an average yearly girth increment of 0·38 inches, equivalent to a mean annual radial increment of 0·06 inches, or nearly 17 rings per inch of radius, which is a very slow growth. However, the plantation undoubtedly requires thinning, and after that operation the growth will probably be faster. The average height appears to be 40 feet.

65. The mahoganies at Aremanabanda referred to last year are thriving on the whole. Out of the seed received from Kew through Mr. Lawson, 1,315 plants were obtained which are now being planted out. In several places in the forests seeds were dibbled in to restock blanks, but it is too early yet to report on success. On the bank of the Pennér river near Proddutur about 89 acres were sown with palmyra and date seeds, and these trees are coming on well.

66. During the year, on a site selected by the Conservator, a nursery was formed at Ballipalle where water was constantly available. The area is $1\frac{3}{4}$ acres, and the cost has been Rs. 250. Teak and Red sanders are the chief trees to be reared, and the seedlings are to be used for filling up blanks in the forests.

67. In the Horsleykonda nursery, with the exception of the plantings of exotics, which will be referred to later on, the work was merely a record of failure. Indeed, plantation and nursery work in the plains districts, except where officers who take a special interest in planting have the work immediately before them, is only a record of failures. This unsatisfactory result is due to the carelessness, want of energy and indifference of the subordinate staff, their objection to carry out orders and their fondness for imagining that any little excuse that can be framed will be accepted in lieu of work done. There are, of course, some notable exceptions among the rangers, but even some of those of the longest service are the worst in these respects.

68. The areas in *Kurnool* referred to in paragraph 71 of last year's report continue to do well. The District Forest-officer of *Bellary* reports that he made experiments in the sowing of seeds of trees in cactus bushes, but with only partial success. But it must be borne in mind that in such a climate seeds often lie dormant for long before a favorable opportunity for germination occurs, and therefore the results should not be despaired of because the first year apparently unsuccessful.

69. *Nilgiris.*—In Ootacamund the Aramby plantation was increased by 25 acres, partly bluegum, partly *Cryptomeria japonica*; 15,300 plants of the latter were planted, and up to March they looked very well. The extraordinarily dry season which ensued was however too much for them and about half were killed off. It is clear that the site was too dry. The bluegum did very well.

70. The Cairn hill plantation was increased by the following areas :—

	Conifers.	Others.
Block I. ...	5½	2
Do. II. ...	18½	2
Do. III. ...	2	...
	26	4
Total ...	30 acres	

The total area of plantation has now been accurately ascertained to be 145 acres, the form has consequently been corrected up to 1st April. (It is in this way the Conservator proposes gradually to put all the areas right. Next year he hopes to be able to have it all done for Nilgiris). The vacancies in many of the blocks were also filled in and the number of plants put out altogether was Bluegum 22,000, Frenela 22,000, Maples (*acer Campbellii*) 4,000, other conifers (*Pinus maritima, longifolia* and *Kasya, Cryptomeria* and *Cupressus macrocarpa*) 1,900.

71. In the *Coonoor Peak* plantation 9,500 bluegum were planted to fill in some small outlying pieces on the edge of the old plantation. The correct area is now 202 acres. In the adjoining reserved forest, 2,500 Frenelas were planted to fill vacancies.

72. The other plantations were all looked after but no additions made. A land slip at Teppakutchi destroyed about half an acre with 50 trees.

73. The nurseries at Coonoor and Kullár in Coonoor range and at Aramby and Cairn hill in Ootacamund have been most useful and a new nursery is in course of progress at Lovedale.

74. The following form continues that given in paragraph 76 of last year' report :—

Name of plantation.	Area stocked up to 31st March 1886.	Receipts.				Cost.				Surplus or Deficit up to date.
		From the commencement up to 1876-77 (Estimate.)	1877—1885.	1885-86.	Total up to the end of 31st March 1886.	From the commencement up to 1876-77 (Estimate.)	1877—1885.	1885-86.	Total up to the end of 31st March 1886.	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.
Governor's shola..	277	6,698	18,185	2,031	26,914	4,514	5,621	135	10,270	+ 16,644
Chemenguli ..	33	..	..	..	..	..	3,861	..	3,861	— 3,861
Muthanád ..	95	..	69	..	69	..	6,686	8	6,694	— 6,625
Brook lands ..	10	366	376	..	742	187	141	..	328	+ 414
Aramby	198	..	7,750	1,651	9,401	2,150	6,995	1,749	10,894	— 1,493
Marliamund ..	11	..	78	..	78	205	625	..	830	— 752
Snowdon	7	506	350	..	856	130	84	..	214	+ 642
Caírn Hill ..	145	..	1,168	917	2,085	..	7,027	2,098	9,125	— 7,040
Devashola.. ..	14	..	..	..	..	..	1,637	..	1,637	— 1,637
Blackbridge ..	56	..	..	..	..	1,040	881	..	1,921	— 1,921
Bleak house ..	232	16,466	3,773	..	20,239	4,350	138	7	4,495	+ 15,744
Bandy shola ..										
Coonoor Peak ..	202	..	10,005	1,100	11,105	3,635	829	482	4,946	+ 6,159
Tippakutchi ..	35	..	21	..	21	650	133	..	783	— 762
Rallia	105	..	829	..	829	1,765	806	..	2,571	— 1,742
Total ..	1,423	24,036	42,604	5,699	72,339	18,626	35,464	4,479	58,569	+ 13,770

75. *Topes.*—This year the Form No. 61 has been reduced to merely a list by taluks. The Conservator visited those at Chatrapur in *Ganjam*, and found them in rather a wretched condition. They must be set to rights, vacancies filled up and extended, if possible, so as to join each other.

76. As last year the *Godávari* District Forest-officer gives no information about topes in his district, nor does the *Bellary* report give any information. Those in *Kistna* are reported to be in good condition. The topes in *Nellore* have been the subject of investigations by the Collector and District Forest-officer during the year, with reference to outstanding claims in respect to them on account of work done under the Jungle Conservaney department in former years. These investigations have given much trouble and the evidence given by the Sub-Assistant Conservator who was Wood Overseer in Nellore formerly has been unsatisfactory.

77. In *Cuddapah* the Bhakarapet tope was handed over to the Local Fund Board who repaid its cost, Rs. 153, and have built a chattram in it. The topes were kept in repair and vacancies filled in in some of them. In Appaiapalle tope a quantity of palmyra seed was sown which is germinating well. The expenditure was much reduced in consequence of the orders on economy. In *Kurnool* all but five of the topes are now managed by the village authorities. They are all in fair order. The District Forest-officer of *Anantapur* reports having visited about 100 of the so-called topes in his district during the year. He has still a great many to visit. The list is in a most incomplete state; a great many do not exist, many are omitted, and several are merely small patches of natural growth. We shall endeavour to get the list into better order during the current year.

78. The Conservator would be very glad indeed if he could give the assurance asked for by the Board in paragraph 15 of their orders on the annual report of last year and by His Excellency in Council in paragraph 14 of the orders of Government,

but at present it is quite impossible. He regrets to say that the statistics which he found on hand when he assumed charge of the combined Forest and Jungle Conservancy department were for the most part completely unreliable. There were plantations recorded as 20, 25 or 30 acres, but really possessing scarcely one acre covered with trees. There were plantations in which the area had obviously been computed from the number of trees planted, *including those used to fill vacancies.* For the plantations in Nílgiris and Cuddapah the areas have now been made fairly correct; for those in Nellore the District Forest officer has made corrections which bring the areas as near the truth as can be without survey. The rest may be said, with the topes, to be still unreliable. Considering the paramount importance of the work of selection, demarcation and improvement of reserved forests, the Conservator has thought it advisable not to waste time in troublesome inquiries concerning comparatively small matters like the topes and smaller plantations, but he is all the same most anxious to transform the inaçurate into accurate statistics and revise and reorganize these small patches of forest property, giving up some, amalgamating others, making other reserves, and so on. But to ascertain areas correctly, it will in most cases be necessary to survey them, and this too will be arranged for, if possible. He hopes therefore that the Board and Government will have patience with the condition of the records and allow the infinitely more important work of the selection, demarcation and settlement of the reserves to have precedence over the revision of the smaller areas. That revision will not be neglected by any means, but will not be allowed to interfere with the prosecution of the more important, and indeed all-important work. Till the settlement work is over, professional progress, except in a small way, will be difficult.

79. (*g*) *Works of Improvement.*—As in former years seeds of various trees were dibbled into vacancies in the proposed reserved Forest in Kistna, but the information available is very meagre owing to the death of the District forest-officer near the end of the year. The areas will be inspected and reported on before the end of the current year.

80. At Sríharikót in Nellore a number of plants of *Eugenia* and *Pterospermum* were put out in October and are doing well. A large quantity, nearly 28 maunds, of seed was also sown, especially *Strychnos*, *Sapindus*, *Pterospermum*, *Xylia*, *Anacardium* and *Cassia auriculata*, the Tangedu. Only the latter has not come up well. Mr. Vincent reports that he finds that if the roots of the Narudu (*Pterospermum suberifolium*) are cut at a distance from the tree, good shoots at once come up, and he is endeavouring to encourage this by trenching round the trees. Sowings in prickly-pear bushes were made in the Kávali taluk, but were not very successful.

81. The District Forest-officer of Cuddapah reports that the creeper cuttings ordered at Horsleykonda were not carried out owing to the reductions. The Conservator thinks this was a pity as other less important works might have suffered reduction with less matter.

82. In the Bellary district creeper cutting was carried on in Rámandrug and 247 tons cut at a cost of Rs. 193. Sowings of seed in cactus bushes were also made as reported in paragraph 68.

In Muchikota forest in Anantapur creepers were cut by fire-patrols to a very large extent.

83. In the *Nilgiris* the creepers were cut in the ghât reserve over 64 acres at a cost of Rs. 258; the wood was pulled down and cleared out and the whole carried off on permit by the head-load daily fuel purchasers. Creepers were also cut in the Benne and Mudumalai plantations and in part of Dodabetta forests. Thinnings were made in the ghât reserve at Coonoor on about 3 acres giving 42 tons and all vacancies were filled up with maples and basketted shola plants. The same was done in Brooklands reserve on 7 acres, giving 79 tons. In these works all sound and good poles and saplings were left and the work was very well done and reflects credit on the Ranger. Compartment No. 2 in Bandyshola was also thinned and gave 56 tons. It is well here to mention that the use of the cross-cut saw has been permanently introduced for all the plantation felling works in the Nílgiris with the greatest advantage. And a proper system of charcoal making is in course of introduction. The result of the first

properly-made kiln was an outturn of 2,320 lb. of charcoal of *Acacia melanoxylon* of very good quality from 10,000 lb. of wood, equivalent to 23 per cent. But this was done since the close of the year.

84. (*h*) *Experiments and exotic trees.*—A supply of 24½ lb. of Mahogany seed was received from the Director of Government Parks and Gardens, Nílgiris, and 10 lb. from the Calcutta Botanical Gardens and distributed—2 lb. each to Kistna, Nellore and Ganjam, 6 lb. to Cuddapah, and the rest to Nílgiris. These latter were sown in a new and carefully-made nursery at Kullar at the foot of the Coonoor ghât and the seeds germinated profusely, and grew very fast. The plants are now being planted out on a piece of about 100 acres of land which lies in the valley of the Coonoor river and are doing very well. Those sent to Cuddapah were sown at Ballipalle and gave 1,315 plants, which are being planted out (see paragraph 65). From the seed sent to Kistna about 2,000 plants were reared under the supervision of Mr. Weld, the Collector, which are being planted at Masulipatam (see paragraph 58). The seed sent to Nellore was carelessly treated by subordinates, and only about 195 plants were reared, which have been carefully planted out. That sent to Ganjam was not properly treated and failed. Government have made arrangements for a further yearly supply of 10 lb. of seeds; and with care, it is now probable that we may succeed in satisfactorily growing this most valuable of all exotic trees. Another species, *Swietenia pumila*, of which seed was received from the Calcutta Gardens, is doing well in the Kistna district.

85. Of the *Rhus vernicifera* plants referred to in paragraph 91 of last year's report, a few in various places in Nílgiris are growing well.

86. *Eucalyptus.*—Seeds of *Eucalyptus Planchoniana*, *Microcorys* and *Baileyana* were received from the Director of Revenue Settlement and Agriculture and distributed to Kistna, Nellore, Cuddapah and Nílgiris. The two latter failed everywhere; the first-named germinated well but damped off much in the plains afterwards. In Nellore and Cuddapah a few plants were reared, and in the Nílgiris a fine batch which have grown well and fast and have been planted in the Coonoor Peak reserve. We have now at Horsleykonda planted out at about 4,000 feet, plants of *Eucalyptus goniocalyx*, *rostrata*, *Mahagoni*, *citriodora*, *Globulus* and *tereticornis* all doing well. But we have not succeeded in finding any species that grows well in the plains either on the coast or on the metamorphic plateau.

87. *Coniferæ.*—The *Frenela rhomboidea*, *Cupressus macrocarpa* and *torulosa* and *Pinus kasya* and *maritima* plantings in the Nílgiris have done well, but the drought of the hot season killed off a considerable number of the *Cryptomeria Japonica*, which had perhaps been put in too dry a locality. Of *Pinus densiflora* and *massoniana* we have a few plants which are doing well. Seed of *Pinus sinensis* and *insignis* has not yet been obtained.

88. By the kindness of Mr. D. E. Hutchins, Conservator of Forests, King William's Town, South Africa, seeds of *Pteroxylon utile* (sneezewood) in several batches, *Curtisia faginea* (Assegai wood), *Podocarpus latifolius* (yellow wood), and *Podocarpus elongatus* (outeniqua wood) were received, and sown mostly in the Coonoor nursery. Some seedlings of all the latter three have been raised. Of the first, however, so far all our attempts have failed, though the seed is quite good. At the Conservator's request the Director of Government Parks and Gardens also tried it under glass, but with no better success. It is a great pity; but if Mr. Hutchins sends us some more, the Conservator does not quite despair of growing it. It is a most valuable wood.

89. The maples from the North-east Himalaya (*Acer campbellii*, *lævigatum* and *Hookeri*) always come up very well, but the seedlings after being planted out seem tender to frost. We have received from the same quarter from Dr. King and Mr. Gammie of the Rungbee Cichona plantations seeds of *Bucklandia populnea* and *Quercus Griffithii*. Both have come up well and the plants of the latter are being put out in a special area in the Coonoor Peak reserve.

90. A new permanent nursery has been formed at Kullar and another is being made at Lovedale in Ootacamund, both in good sites, and proving, and likely to prove, most useful. The Coonoor nursery continues to do admirably under the ranger's very careful supervision.

91. The growing of indigenous shola trees in the Nílgiris has been very successful; the ones which grow best are *Eugenia Arnottiana* and *Michelia nilagirica* which happily are the two best indigenous timbers.

92. (*i*) *Communications and Buildings—Roads.*—In Ganjam the improvement of cart-tracks into the forests is in progress, but the orders on reduction of expenditure affected the amount done. Two pieces of important road were cleared at a cost of Rs. 140.

93. In Cuddapah the road from Mamillapalle to Rajamanipenta was continued for another 2½ miles, nearly all heavy hill work, at a cost of Rs. 913. In Kurnool work was restricted to the clearing of former cart-tracks, 73½ miles, at a cost of Rs. 367, mostly however with the primary object of being fire-traces. In Bellary the road along the boundary of the Rámandrug block was made as a work of demarcation.

In Anantapur, work was restricted to the upkeep and repairs of existing roads.

94. In Nílgiris the following work was done.—

	Rs.
Aramby Reserved Forest—Old roads repaired and 3 furlongs new made for	271
Cairn Hill Reserved Forest—Old roads repaired and improved ...	61
Coonoor Peak Reserved Forest—Roads to Woodhouselee and Bandyshola repaired and new culverts	171
Longwood Reserved Forest—Roads all repaired and made good ...	305
Mudumalai do. — Do. do. ...	288

In all districts the work of communications had to be stopped somewhat owing to the reductions of expenditure ordered by Government.

95. *Buildings.*—In Ganjam existing houses were repaired and a rest-shed built at Rodopodoro at a cost of Rs. 110.

96. In Godávari, the old Forest office at Wuddagudem was burnt down in January 1886 during the absence of the Sub-Assistant Conservator on tour. Mr. Stafford lost much of his property, and the fire is supposed to have been the work of an incendiary, but though the police station is not far off at Kunnavaram, nothing was found out. A temporary shed was erected in lieu of it at a cost of Rs. 70, and a better house will be built this year.

Work in the Cuddapah district was restricted to the repairs of existing houses and the erection of 23 guards' huts at a cost of Rs. 20 each.

97. In the Kurnool district, by the exertions of the late District Forest-officer, Mr. Sim, the following rest-houses were finally completed, including those done in previous years:—

	Rs.
Bainuti	1,350
Rollapenta	1,640
Addutla	940
Pecheruvu	280
Yenugalayya	300
Gundla Brameshwar	300
Karadulagundam	375
Rudrakodu	275
Buggapenta	260
Talugulu	230
Mallalamma	200
Baireni	230
Baswapuram	320

Thirteen in number. The remaining seven are still under construction. Range-houses were also built at Velgode (Rs. 350), Krishnamchettipalle (Rs. 516), Dornal (Rs. 290), besides several guards' and tannahdars' huts. Necessary repairs were also done. The Nandyál head-quarters bungalow had to be postponed owing to the reduction orders.

98. In Bellary, a range-house was built at Sandur at a cost of Rs. 460, and in Anantapur the Konapanainopalle house was repaired, and the head-quarters bungalow nearly finished.

99. In Nílgiris, the range-house at Melúr was completed for Rs. 108. The range-houses at Mudumalai, Benné and Naduvatam were repaired and other minor works carried out at a total cost of Rs. 395.

In respect to houses, also, the work of the year suffered by the reductions of the budget provision.

100. *Boats.*—In the Nellore district four boats were completed during the year, viz. :—

				Rs.
Two	20 tons	open cargo boats each at	... ...	553
One	16 do.	top boat for produce at	... ...	827
One	9 do.	do. for produce at	... ...	407

The District Forest-officer reports that a great saving was effected in the use of these boats, the first two having saved Rs. 90 on the whole in nine months.

101. *Tramway.*—Two sections of tramway line, each 1⅛ miles, were purchased during the year from Messrs. Fowler and Co. at a cost of Rs. 6,815 and 6,751, respectively. The first section received was set up for the Tamminapatam plantation and the second at Sríharikót. The latter was too late for much of the year's working. The results of the work for the year under review are as follows :—

	Rs.
Cost of 1⅛ miles of tramway line	6,815
Carriage to forest	140
Laying line	60
Total ...	7,015

The work done during the year was the carriage of 2,000 tons casuarina fuel aô Tamminapatam at a cost of Rs. 327, or Rs. 340, including cost of relayings. Had this fuel been carted in the ordinary way it would have probably cost Rs. 2,000, so that the saving by the tramway has been about Rs. 1,660. If we deduct from this a percentage of 2½ per cent. (equivalent to 10 per cent. per annum or 10 years' purchase) of the capital cost, we have a saving of Rs. 1,485 for three months' work only.

102. The Conservator hopes that before long the department will, by the completion of settlement and other preliminaries which now take up the District Forest-officer's time entirely, be able to set up such a line from Jirigopa to Lakewaram along the foot of the Rékapalle hills for the extraction of iron-wood and other timber, the difficulties in respect to which are now very great. The first thing to make is a road along which it can be laid and that will soon be started. In Kurnool some miles of line to bring fuel to the railway in the Nandíkanama pass would be most valuable and save much of the present difficulty, which is labor and an unhealthy locality. It is probable, too, that similar lines will well pay their expenses in the Aramby and Coonoor Peak Plantations on the Nílgiris.

CHAPTER V.

Yield and Working.

(1) *Departmental Work.*

103. Form No. 68 gives the trees felled by departmental agency duirng the year as 15,091 as follows :—

Teak	285	* Yepi	380
Sál	296	† Yegi	122
Blackwood	84	‡ Chiriman	91
Satinwood	6	§ Nallamaddi	328
Ebony	4	Palmyra	36
Red sanders	2	Eucalyptus	9,415
Iron-wood	2	Acacia	79
Cotton tree	255	Casuarina	1,761
Margosa	20	Miscellaneous	1,695
Babúl...	230	Total ...	15,091

* *Hardwickia binata.*
† *Peterocarpus Marsupium*, known locally as Piasál (Uriya), Yegi (Telugu), Vengaí (Tamil).
‡ *Anogeissus latefolia*, known locally as Dhau (Uriya), Chiriman, yellema (Telugu), Matti (Tamil).
§ *Terminalia tomentosa*, known locally as Sajo (Uriya), Nallamaddi (Telugu), Matti (Tamil).

These details are given in order to show to some extent the demand. The teak was all cut in Nílgiris, the sál in Ganjam, the casuarina in Nellore, the eucalyptus and acacia in Nílgiris. The cotton tree logs were cut for floats and for light planking for rafts at Gopálpur, the babúl, mostly in Anantapur, for the sake of the bark.

104. Form No. 69 shows the timber and other produce cut and collected by Government Agency and its disposal either by sale or otherwise. The amount collected was:—

District.	Timber.	Fuel and dry woods.	Bamboos.	Minor produce.
	C. FT.	TONS.	NOS.	MDS.
Ganjam	44,918	..	..	..
Godávari	15,905	1,256	5,564	..
Nellore	5,985	6,808	..	1,815 of 25 lb.
Cuddapah	..	2,162	1,368	122 of 25 ,,
Bellary	225	1,258	..	177 of 40 ,,
Anantapur	423	9	..	1,710 of 40 ,,
Nílgiris	18,870	4,407	..	1,525 of 25 ,,
Total ..	86,326	15,900	6,932	5,349

105. This may, as was done in paragraph 109 of last year's report, be rendered thus in tons:—

	TONS.
Timber, 86,326 cubic feet at 50 cubic feet = 1 ton	1,727
Fuel and red sanders	15,900
Bamboos, at 75 = 1 ton	92
Minor produce in tons...	72
Sandalwood, 910 maunds of 25 lb.	10
Total ...	17,801

which is rather a falling off on last year.

106. The chief collections were: in Ganjam the sale of dry logs in the forests and the bringing out of a few new good ones of large size; in Nellore, fuel and minor produce; in Cuddapah, red sanders wood, 2,162 tons; and in Nílgiris, timber from the Benné and Mudumalai forests. The sales in the forests were larger than usual. In Ganjam the sál wood was to a great extent sold in the forests to Messrs. Minchin and Co. and Harden and Co. This, in the present state of our establishment, is a great saving of time and labor, and it is to be hoped that by degrees all sales will be from the forests direct. In Nílgiris also nearly all the timber cut was sold in the forests.

107. Form No. 70 shows the receipts and issues of timber, &c., in sale depôts. The amounts received and disposed of during the year come to—

Timber, &c.

	Received.		Disposed of.	
	NO.	C. FT.	NO.	C. FT.
Ganjam	9,502	39,122	11,773	46,609
Nellore	4,646	3,431	4,692	3,213
Cuddapah	...	80,827	...	80,715
Anantapur	...	...	477	40
Nílgiris	4,735	2,367	4,475	2,237
Total ...	18,883	125,747	21,417	132,814

Fuel.

	Received. TONS.	Disposed of. TONS.
Nellore	6,798	6,775
Bellary	...	115
Nílgiris	1,160	746
Total ...	7,958	7,636

Bamboos.

	NO.	NO.
Cuddapah	2,448	38,644

Minor produce.

	MDS.	MDS.
Nellore	3,130	3,374
Cuddapah	127	926
Bellary	77	...
Anantapur	482	766
Nilgiris	484	483
Total ...	4,300	5,549

which we can thus, as before, render approximately in tons as—

	Received.	Disposed of.
Timber	2,515	2,656
Fuel	7,958	7,636
Bamboos	33	515
Minor produce	48	63
Total ...	10,554	10,870

108. Form No. 71 shows the sales of timber, *first*, from depôt; *secondly*, from the forest directly; and *thirdly*, from drift. The Conservator has omitted the entry of confiscated wood which would have entailed doubling the size of the form for the sake of a number of very petty and unimportant items. The following abstract of the form shows the sales of the year :—

Timber.

District.	Depôt.		Local.		Drift.		Total.	
	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.
Ganjam	32,473	11,690	44,340	11,501	..	..	76,813	23,191
Godávari	..	..	..	..	12,117 3,788	5,686 1,453	15,905	7,139
Nellore	1,259	722	4,335	1,292	..	..	5,594	2,014
Cuddapah	80,715	34,272	139	72	..	..	80,854	34,344
Bellary	..	..	225	9	..	..	225	9
Anantapur	40	28	548	104	..	..	588	132
Nilgiris	2,372	873	15,625	8,117	..	..	17,997	8,990
Total ..	116,859	47,585	65,212	21,095	15,905	7,139	197,976	75,819

Fuel.

District.	Depôt.		Local.		Drift.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.
Godávari	..	..	1,629	3,975	..	..	1,629	3,975
Nellore	6,775	51,418	414	2,672	..	..	7,189	54,090
Cuddapah	..	..	4	9	..	..	4	9
Bellary	106	166	258	771	..	..	364	937
Anantapur	..	..	9	34	..	..	9	34
Nilgiris	565	3,936	2,632	12,314	..	..	3,197	16,250
Total ..	7,446	55,520	4,946	19,775	..	..	12,392	75,295

Bamboos.

District.	Depôt.		Local.		Drift.		Total.	
	NO.	RS.	NO.	RS.	NO.	RS.	NO.	RS.
Godávari	..	..	..	..	5,564	137	5,564	137
Cuddapah	35,747	514	620	11	..	..	36,367	525
Total ..	35,747	514	620	11	5,564	137	41,931	662

Sandalwood.

	Sold locally.	
	MDS.	RS.
Nilgiris	910	3,081

Minor produce.

District.	Depôt.		Local.		Drift.		Total.	
	MDS.	RS.	MDS.	RS.	MDS.	RS.	MDS.	RS.
Nellore	3,262	4,248	89	69	..	..	3,351	4,317
Cuddapah	926	388	89	3	..	..	1,015	391
Bellary	..	..	56	25	..	..	56	25
Anantapur	194	139	31	32	..	..	225	171
Nilgiris	478	296	1,050	630	..	..	1,528	926
Total ..	4,860	5,071	1,315	759	..	..	6,175	5,830

109. Reducing all to tons we have—

	C. FT.	TONS.	RS.
Timber	197,976	3,960	75,819
Fuel	...	12,392	75,295
Bamboos	41,931	559	662
	at 75 per ton.		
	MDS.		
Sandalwood...	910	=10	3,081
Minor produce	6,175	=69	5,830
Total ...	...	16,990	160,687

or an average receipt of nearly Rs. 10 per ton, which is rather less than last year's receipts of Rs. 12 per ton. The maund has been taken at 25 lb., and the estimates made as they were last year (see paragraph 117 of last year's report). The total amount of material sold is greater than last year, especially in fuel and bamboos.

110. Form No. 73 shows the difference in value between the stock on hand at the beginning and end of the year in—

District.	On hand at commencement of the year.	On hand at close of the year.	Difference.
	RS.	RS.	RS.
Ganjam	5,757	688	— 5,069
Nellore	6,040	6,469	+ 429
Cuddapah..	1,006	52	— 954
Bellary	583	552	— 31
Anantapur	..	549	+ 549
Nilgiris	87	2,825	+ 2,738
Total ..	13,473	11,135	— 2,338

111. The result of five years' work in Ganjam was shown last year. This year arrangements have been made to stop departmental sleeper cutting and sell timber as much as possible in the forests. The result of the year has been the sale of 76,813 cubic feet of timber for Rs. 23,191, or 4 annas 9 pies per cubic foot, for sales half of which were in the forest and cost nothing and the rest almost at depôt. The prices obtained are low, but they are market rates, and though depôt sales ought perhaps to command a higher price, forest sales are at as high a rate as is at present obtainable. The great difficulty the dealers find in the export of Ganjam timber lies in the heavy freight charged by the British India Steam Navigation Company and their constant refusals to ship, causing long delays.

112. In the Cuddapah district, 2,165 tons of red sanders wood were brought to depôt and 2,162 tons sold. The cost of bringing to depôt was Rs. 13,583, or Rs. 6-3-0 per ton. The receipts were Rs. 36,979, or, omitting Rs. 2,700 due for the previous

year, Rs. 17-1-7 per ton, showing a profit of Rs. 10-14-7, which shows that the profit is steadily increasing, and this on a transaction which is merely a clearance of old stumps and roots.

113. The bamboos brought out last year were sold during that under review. The financial result of the transaction was—

	Rs.
Cost of extraction of 30,560 bamboos	491
Price realized	544
Profit ...	53

a small profit but good as a commencement, and for what are really merely thinnings. It is expected that the demand will steadily improve when the value of these fine bamboos is better known.

114. In Nellore 4,254 tons of fuel were sent to depôt during the year, of which about 800 tons were from the wind fall trees blown down in the cyclone. The cuttings were made in Venád island and Khandam No. 1 for green wood and in Khandams 5, 6 and 7 for windfall wood. From the casuarina plantations 2,715 tons were cut in regular cuttings and 516 tons in dry trees.

115. The Collector and District Forest-officer have not yet carried out the recommendations of the Conservator, of which the Board approved, of selling the wood on the canal bank instead of at depôt.

116. In the Nílgiri district the cuttings of timber were nearly all sold in the forests. And for fuel a new system was introduced under which instead of delivering the fuel required for the supply of the settlement of Ootacamund and Coonoor at houses at fixed rate, sales by tender of cut wood were made in the forest. The new system has been so far successful, but naturally the sales are less in amount than formerly in consequence of the new system placing private and Government wood on the same footing and the depression in the Nílgiris causing owners of planted trees to try to realize. The chief cuttings were, as usual, under the working plans referred to in paragraphs 30 to 34.

117. The new system of sale has the great advantage that the rates fix themselves. The wood cut is stacked in stacks of each 100 cubic feet and twice a month sales are held by tender of ten stacks or more. On the dates fixed the tenders are opened and the highest tenders accepted. In this way the market rules the rates and the whole trouble of delivery at houses is saved.

118. In regard to the sales of *minor produce*, the chief circumstance worth note is that in Nellore the effects of the cyclone of 1884 are still felt. No tamarind could be obtained and in other items there was a falling off. In Cuddapah the beleric myrabolams cut in the previous year were sold, the financial results of the extraction and sale of 810 maunds being—

	Rs.
Cost of collection	219
Realised	305
Profit ...	86 or 1 anna 8 pies per maund.

(2) *Removal by Purchasers.*

119. Form No. 72 gives the items of sales direct from the forests. In continuation of the remarks made by him in paragraph 128 of his report for last year, the Conservator has again to draw attention to the discrepancies between the returns supplied by District Forest-officers and the Revenue summaries. It is impossible in his office to correct these returns, and he is obliged to give the figures as sent to him. The inaccuracy may be due to the fact that the finally-audited figures of the year were not before District Forest officers when they wrote their reports.

120. The results for the year, taking the Form 64 figures, compare thus with 1884-85 :—

	1884-85.	1885-86.
Ganjam...	11,648	15,644
Vizagapatam	2,416	3,886
Godávari	46,846	47,554
Kistna	54,220	55,271
Nellore	12,885	7,959
Cuddapah	105,645	126,235
Kurnool	74,174	71,625
Bellary	17,089	17,539
Anantapur	13,277	14,334
Nílgiris	18,089	8,808
Total ...	356,289	365,855

showing an increase in most districts.

121. That in Ganjam is attributed to the decrease of petty theft and the improvement of the protective establishment. The increase in Kistna is attributed to larger revenue from sale of trees on "durkhast" lands. The decrease in Nellore is due to the less amount required for the Sangam works. The good increase in Cuddapah comes from the better sales of bamboos and "Tangedu" bark and of the fruits and leaves of scattered trees. In Anantapur the increase is due to an improved system of sale of "Tangedu." The large decrease in Nílgiris is attributed to stoppage of sales on permit from Mudumalai, but the Conservator is unaware why this stoppage was made at any rate as regards dry wood.

122. The revised schedules of rates are still under the consideration of Government.

123. The sales of dead-wood from the old reserved forests of Cuddapah was as follows :—

—	Tons.	Rate per ton.	Amount.
		RS. A. P.	RS.
Ballipalle .. East	770	2 0 0	1,540
Ballipalle .. West	435	1 10 0	707
Vagetikona	650	1 10 0	1,056
Kódúr hill	300	1 12 0	525
Do.	125	1 0 0	125
Gadela	87	1 0 0	87
Yerraguntlakota	60	1 0 0	60
Horsleykonda	25	2 0 0	50
Total ..	2,452	..	4,150

being a decrease on last year, due merely to the fact that the wood has been now nearly all worked out. The average per ton was Rs. 1-11-0, a small decrease on last year.

124. The sales of engine fuel to the contractors of the Madras Railway amounted to Rs. 37,116 for 16,585 tons. Cuttings were made as follows :—

Range.	Forest.	Number of tons.	Rate.	Amount.	Remarks.
			RS. A. P.	RS.	
Kódúr	Open forest	9,287	2 3 10	* 20,789	
Do.	Ballipalle working circle ..	* 1,068	2 4 6	2,435	* Includes 528 tons belonging to the cuttings of 1884-85.
Rájampet	Open forest	1,371	2 3 10	3,070	
Sidhout	Do.	4,830	2 3 10	10,822	
	Total ..	16,555	..	37,116	

125. *Free grants.*—The District Forest-officer of Vizagapatam reports that free grants of forest produce have been very extensive, especially in Pálkonda range and Golgonda. The tahsildars are in the habit of granting free passes to any one who

applies. This is contrary to the rules and should have been stopped by the Collector and free grants restricted to cases of real hardship only. From Kistna district it is reported that sixteen cart-loads and fifty four head-loads of wood and sixteen palmyra trees were granted free, mostly in cases where houses had been burnt. The Collector of Cuddapah reports, as last year, that statistics cannot be given, but that free grants were restricted to cases of calamity from fire. The unreserved forests in Cuddapah are extensive and the removal of wood for fuel, implements, &c., is free in them under the rules. The Collector of Kurnool reports that materials were given for 218 burnt houses as well as 240 cart-loads of firewood and 389 of thorns for fencing. For the Nílgiris eighty trees and forty head-loads of wood were granted for building purposes. From other districts no information was received.

126. *Drift and confiscated wood.*—The collection of drift wood in Godávari amounted to 12,117 cubic feet of teak and 3,788 cubic feet of other wood, all of which was sold for Rs. 7,139. In other districts the amount of drift collected was very small. In all districts a certain amount of confiscated wood was sold. The total revenue of drift and confiscated wood was Rs. 9,369.

CHAPTER VI.

Financial Results.

127. In Form 64 is given the summary of revenue and expenditure of the year, the results being—

	Rs.	Rs.
Revenue	... ...	5,46,282
Expenditure—A	188,930	
B	212,887	
		4,01,817
Surplus ...		1,44,465

a result which differs only slightly from that of last year. The *net* revenue is 26·4 per cent. of *gross* revenue. The reductions made in the estimates during the year on account of financial pressure have decreased the expenditure under A considerably, and have to some extent affected the revenue.

128. The comparison of revenue and expenditure for the districts is as follows :—

Districts.	Revenue.	Expenditure.	Surplus or deficit.
	Rs.	Rs.	Rs.
Direction	246	47,415	— 47,169
Ganjam	38,715	25,995	+ 12,720
Vizagapatam ..	3,938	7,175	— 3,237
Godávari	60,566	17,943	+ 42,623
Kistna	63,110	24,619	+ 38,491
Nellore	71,398	77,198	— 5,800
Cuddapah	1,62,673	65,351	+ 97,322
Kurnool	72,617	34,913	+ 37,704
Bellary	18,878	25,434	— 6,556
Anantapur	15,096	15,162	— 66
Nílgiris	39,045	60,612	— 21,567
Total ..	5,46,282	4,01,817	+1,44,465

Compared with last year (see paragraph 151 of last year's report) it is noticeable that it is in the same districts that the surplus or deficit occurs. In Nellore and Nílgiris the deficit is due to demarcation, road and other capital charges. To get the Nílgiri forests to pay their expenses properly roads are urgently wanted, and even more money requires to be spent on them. In Nellore the cost of $2\frac{1}{4}$ miles of tramway came in. About other districts there is not much to remark. The financial position of the Forest department cannot be properly gauged until the reserved forests and other preliminaries are settled, and the staff becomes more professionally efficient.

129. Form 67 gives the distribution of revenue and expenditure under the three heads of "Departmental timber works," "Other revenue" and "Improvement of forests." The amount debitable to the first head under the usual distribution (which is

the same as last year) is rather high and the surplus small. It is noticeable that there is a deficit in Nílgiris due to the large necessary expenditure on communications.

130. Form 65 shows the liabilities outstanding against contractors and disbursers, chiefly the latter, showing a balance in favor of the department of Rs. 9,386. These outstandings, now that they are kept properly on record, will be inquired into and kept low.

131. Form 66 shows the outstandings of revenue amounting to Rs. 5,840, mostly in the Ganjam, Nellore and Nílgiri districts. These are due to payments for large supplies not sometimes coming in at the proper time. In Ganjam the outstandings are due from Messrs. Harden, Duffield and Co. of Gopálpur, chiefly, in Nílgiris from Messrs. Groves and Co., both large purchasers of timber.

132. Forms 73-A and 73-B show the comparison between the values of (1) timber, &c., and (2) stores, tools and plant at the beginning and end of the year.

The true value of the year's transactions therefore is—

	RS.
Net Revenue	1,44,465
Outstanding do.	+ 5,840
Do. advances	+ 9,386
Value of timber	— 6,067
Do. of stock	+ 24,259
	1,77,883

133. *Elephants.*—Form 74 gives the particulars of these. The two animals are very poor ones and seem to have been transferred to the Nílgiris in 1882 as unsuited to the Anamalai work. Two animals were caught in pit-fall traps during the year, but damaged themselves, and, in spite of care, died very shortly after capture. The pit-trap system is not a good one for the purpose, and the Conservator does not wish to see it resorted to again. But wild elephants are getting very numerous, troublesome and destructive in the Mudumalai forest, and if Government could see its way to allowing them to be thinned out, or to the establishment of proper Kheddah operations, it would be well. The young elephant, born in captivity, is doing well.

CHAPTER VII.

General Remarks.

134. The Conservator visited during the year the districts of Ganjam, Cuddapah, Kurnool, Bellary and Nílgiris. He also inspected the offices of these districts and of Godávari and Anantapur. In December 1885, January and February 1886, he was on privilege leave, when Mr. A. W. Peet acted as Conservator. During the nine months the Conservator was in charge, he spent 82 days in camp away from Madras or Ootacamund. The Acting Conservator was out for 41 days—total 123.

135. The following schedule shows the tours made by District Forest officers during the year :—

Districts.	Names of officers.	Number of days	
		In charge.	On tour.
Ganjam ..	Mr. A. W. Lushington, Assistant Conservator ..	365	176
Vizagapatam ..	Somasundra Mudaliar, Sub-Assistant Conservator..	205	84
	Mr. Sweet, Assistant Conservator	160	85
Godávari ..	,, Stafford, Sub-Assistant Conservator	96	93
	,, Homfray, Assistant Conservator	98	39
	,, Battie, ,, ,, ...	171	92
Kistna ..	,, Boileau (deceased), Deputy Conservator ..	216	148
	The Collector	149	82
Nellore ..	Mr. Vincent, Deputy Conservator	365	228
Cuddapah ..	,, Higgens, ,, ,, ...	365	189
Kurnool ..	,, Sim, ,, ,, ...	334	228
	,, Leresche, Assistant Conservator	31	10
Bellary ..	,, Battie, ,, ,, ...	182	93
	,, Brougham, ,, ,, ...	183	116
Anantapur ..	,, Brougham, ,, ,, ...	20	..
	,, Lodge, ,, ,, ...	345	209
Nílgiris ..	Colonel Jago, Deputy Conservator	365	160

The Conservator is satisfied with the amount of tour work done.

136. The Conservator regrets to have to note the death during the year of Mr. E. H. Boileau, Deputy Conservator in charge of Kistna, on 3rd November 1885. He was a hard-working officer, but for some time had been in bad health, in spite of which his conscientious regard for his duty kept him on tour. His last inspection of the coast forests brought out much interesting information regarding them. During the year also Mr. H. A. Sim, C.S., was retransferred to the Revenue department as Principal Assistant Collector, Malabar, and Acting Sub-Secretary to the Board of Revenue. The good work done by him while in charge of the Kurnool forests will long show its effects. He was most successful in breaking up the smuggling confideracy, stopping the malpractices of Railway contractors, in opening up the Nallamalais, obtaining the friendship of the Chentzus, making good temporary rest-houses and re-organizing the staff.

137. Mr. Higgens, C.S., still remains in the department. His services in the Cuddapah district till the completion of forest settlement are almost indispensable. He has worked with his usual energy and zeal.

Mr. Vincent has, as usual, done good work. The Conservator would have liked to have seen the selection of reserved and village forests pushed on faster, but he accepts the excuse given of the difficulty of working the plantations, the intricate settlement of Śrîharikót, the troublesome inquiries into old tope claims, and the general badness of the subordinate staff. Mr. Hooper still continues on leave, but while on leave has been deputed by the Colonial office to advise the Government of Jamaica regarding forest conservancy in that colony. Mr. Lushington has worked in Ganjam with much energy; the slowness in the constitution of reserved forests is of course detrimental to more extended timber work, still a great deal has been done, and Mr. Lushington deserves credit for it. Mr. Homfray was appointed during the year to act as Examiner of Forest Accounts *vice* Mr. Douglas on leave. Mr. Lodge has worked well in the Anantapur district and Colonel Jago and Mr. Battie to the Conservator's satisfaction.

138. Mr. C. L. Toussaint, Sub-Assistant Conservator, joined his appointment as in charge of the Cuddapah sub-division at the end of the year after having passed with credit from the Forest School at Dehra Dun. Mr. M. H. Tweedie failed to pass, but as he was well reported on by the Director, he was allowed to join as a forest ranger. The Collector and District Forest-officer of Nellore have reported unfavorably of the work done by Sub-Assistant Conservator, Somasundra Mudaliar, and the Conservator agrees in their condemnation. Forest rangers, Mr. Newman, Mr. Gaudoin, Nallasawmy Naidu, P. Srinivasa Row (since deceased), Visvanatham, Nagaraju and Koduṇda rama Mudaliar have been well reported on, and the Conservator again cordially recognizes the assistance given him by all his office staff, some of whom have however been very ill during the year.

139. The health of the establishment has not been good, nor will it generally improve till the officers and subordinates are better housed in camp. Some parts of the Northern Circle are among the most unhealthy tracts in India, and most especially bad are the hills of the Northern Circars, the Nallamalais and the South-east Wynaad.

140. Large collection of produce, chiefly manufactured articles, were sent in December to the Inspector-General of Forests for the Indian and Colonial Exhibition in London.

141. The annual reports of all districts were better done, but still the preparation of returns shows in some districts much want of care and accuracy. If District Forest-officers would simply make out district returns exactly on the model of those given in the circle report, all would be done that is necessary. Mr. Vincent's report from Nellore was especially interesting. The reports of Nílgiris and Ganjam were received very late; the former on 2nd July, the latter on 16th July, to the Conservator's very great inconvenience and the delay of his own report.

ANNUAL FORM No. 59-A.

Forest Department, Northern Circle, Madras.

Area of Reserved Forests under the Forest Act, 1885-86.

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Cuddapah.	Kódúr ..	Kódúr Plantation ..	50	..	..	..	50	..	No. 39 of 6th March 1884.	
		Thunakonda ..	1,048	2	..	..	1,048	2	No. 39 of 6th March 1884.	
		Uparapalli Plantation.	108	..	..	..	108	..	No. 223 of 25th November 1884.	
	Rájampet..	Pullampet Plantation.	328	½	..	..	328	½	No. 170 of 6th September 1884.	Rectification. The area was wrongly given last year by mistake.
		Mittamidapalle Plantation.	924	1½	..	826	98	..		
		Total, Cuddapah ..	2,458	4	..	826	1,632	2½		
Anantapur.	Anantapur.	Anantapur Plantation.	..	..	131	..	131	..	No. 63 of 14th January 1885.	From 1st May 1885.
	Gooty ..	Khojjapalle ..	..	..	367	..	367	½		
	Hindupur..	Somarajmalai ..	..	..	1,920	..	1,920	3	No. 225 of 1st August 1885.	From 1st October 1885.
	Penukonda.	Narasampalli ..	..	..	1,280	..	1,280	2	No. 346 of 5th December 1885.	From 1st February 1886.
		Total, Anantapur ..	..	..	3,698	..	3,698	5½		
Nilgiris.	Ootacamund.	Marliamund Plantation.	17	..	..	..	17	..	No. 231 of 1st December 1884.	
		Aramby	..	..	430	..	430	½	No. 143 of 28th April 1885.	From 1st June 1885.
		Therma tope ..	64	..	..	..	64	..	No. 88 of 14th March 1885.	
		Marliamund ..	75	..	..	..	75	..		
		Nergodumand ..	..	..	55	..	55	..	No. 281 of 21st September 1885.	From 1st November 1885.
		Muthanád	420	1	..	..	420	1	No. 84 of 14th March 1885.	
		Brooklands.. ..	177	½	..	..	177	½	No. 84 of 14th March 1885.	
		Cairn hill	405	1	..	..	405	1	No. 231 of 1st December 1885.	
		Bathri shola ..	34	..	..	..	34	..	No. 88 of 14th March 1885.	
		Baikie	..	..	199	..	199	½	No. 143 of 28th April 1885. No. 281 of 21st September 1885.	Part from 1st June 1885, part from 1st November 1885.
		Fairlawns	..	..	89	..	89	..	Nos. 281 and 282 of 21st September 1885.	From 1st November 1885.
		Madana	..	..	31	..	31	..	No. 281 of 21st September 1885.	Do. do.
		Manjinikorai ..	..	..	17	..	17	..		
		Lovedale	..	..	202	..	202	½	No. 141 of 28th April 1885.	From 1st June 1885.
		Elk hill	..	..	77	..	77	..		
		Craigmore	..	..	299	..	299	½		
		Mainalai	..	..	115	..	115	½	No. 281 of 21st September 1885.	From 1st November 1885.
		Dodabetta	..	..	329	..	329	½	No. 141 of 28th April 1885. No. 281 of 21st September 1885.	From 1st June 1885. From 1st November 1885.
		Doddahalla sholas..	..	..	23	..	23	..	No. 281 of 21st September 1885.	Do. do.
		Kotagiri Trace sholas.	..	..	51	..	51	..	No. 141 of 28th April 1885.	From 1st June 1885.
		Woodcock sholas ..	..	..	24	..	24	..	No. 281 of 21st September 1885.	From 1st November 1885.
		Snowdon	..	..	1,053	..	1,053	2	No. 141 of 28th April 1885.	From 1st June 1885.
		Cully	..	..	71	..	71	..	No. 143 of 28th April 1885.	Do. do.
		Governor's shola ..	..	..	33	..	33	..		

Area of Reserved Forests under the Forest Act, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of Notification of addition or transfer	Remarks.
Nílgiris —*cont.*		Ulnád	..	..	839	..	839	1½	No. 143 of 28th April 1885. No. 89 of 5th March 1886.	From 1st June 1885. From 31st March 1886.
		Krúrmand	..	..	1,552	..	1,552	2½	No. 143 of 28th April 1885. No. 89 of 5th March 1886.	From 1st June 1885. From 31st March 1886.
		Pykara	..	..	844	..	844	1½	No. 143 of 28th April 1885.	From 1st June 1885.
	Ootacamund—*cont.*	Sandy Nála ..	..	..	818	..	818	1		
		Kengodu	..	..	415	..	415	½		
		Yemmaikal	..	..	465	..	465	½		
		Karpakan	..	..	391	..	391	½		
		Vellingiri	..	..	643	..	643	1		
		Carritt shola ..	..	..	265	..	265	½		
		Nílgiri Peak ..	..	..	5,962	..	5,962	9		
		Makurti Peak ..	..	..	1,323	..	1,323	2	No. 89 of 5th March 1886.	From 31st March 1886.
		Pichalbettu ..	..	..	1,668	..	1,668	2½		
		Kadcoopa ..	..	..	1,622	..	1,622	2½		
		Terrace sholas ..	..	..	76	..	76	..		
		Bellevue sholas ..	..	..	90	..	90	..		
		Ochterlony shola. ..	..	..	973	..	973	1½		
		Naduvatam sholas.	..	..	97	..	97	..		
	Mudumalai.	Singara	..	..	1,970	..	1,970	3		
		Kalhatti	..	..	5,005	..	5,005	8		
		Bockepuram ..	..	..	2,008	..	2,008	3	No. 88 of 5th March 1886.	From 31st March 1886.
		Moyar	..	..	13,238	..	13,238	21		
		Benne	..	..	10,317	..	10,317	16	No. 141 of 28th April 1885.	From 1st June 1885.
		Honnathalai ..	..	..	320	..	320	½	No. 88 of 5th March 1886.	From 31st March 1886.
	Coonoor ..	Bettumand	..	..	119	..	119	½	No. 89 of 5th March 1886.	From 31st March 1886.
		Newman	..	..	70	..	70	..		
		Blackbridge ..	390	½	..	..	390	½	No. 232 of 1st December 1884.	
		Sim's Park ..	36	..	48	..	84	..	No. 232 of 1st December 1884. No. 144 of 28th April 1885.	From 1st June 1885.
		Spring field ..	34	..	..	..	34	..	No. 232 of 1st December 1884.	
		Bleak house ..	52	..	..	..	52	..		
		Bandy shola ..	111	..	..	..	111	..		
		Coonoor Peak ..	..	..	259	..	259	½	No. 144 of 28th April 1885.	From 1st June 1885.
		Lamb's Rock shola.	259	½	449	..	708	1	No. 232 of 1st December 1884. No. 276 of 15th September 1885.	From 1st November 1885.
		Brooklands ..	..	..	14	..	14	..	No. 144 of 28th April 1885.	From 1st June 1885.
		Tiger hill ..	..	..	314	..	314	½		
		Town shola ..	11	..	..	..	11	..	No. 232 of 1st December 1884.	
		River Reserve ..	53	..	..	..	53	..		
		Ghát do. ..	..	..	247	..	247	½	No. 144 of 28th April 1885.	From 1st June 1885.
		Hillgrove	..	..	147	..	147	½	No. 276 of 15th September 1885.	From 1st November 1885.
		Barliyár	..	..	178	..	178	½		
		Benhope	..	..	40	..	40	..		
		Kullar	..	..	847	..	847	1½	No. 276 of 15th September 1885.	From 1st November 1885.
		Aduthore	..	..	790	..	790	1		
		Longwood	..	..	288	..	288	½	No. 119 of 22nd April 1885.	From 1st June 1885.
		Nott shola	..	..	8	..	8	..		
	Kótagiri ..	Kesalhada	..	..	155	..	155	½		
		Kunnavara	..	..	100	..	100	..		
		Karbetta	..	..	12	..	12	..		
		Total, Nílgiris ..	2,138	3½	58,084	..	60,222	94		
		Grand Total ..	4,596	7½	61,782	826	65,552	102		

ANNUAL FORM No. 59-C.

Forest Department, Madras, Northern Division.

Area of reserved lands, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nellore ..	Kávali	Kávali	..	..	2,933	..	2,933	5	Collector's notice, dated 9th Jan. 1886.	
Cuddapah ..	Kódúr	Reddipalle plantation ..	1,800	3	..	..	1,800	3		Proposed as reserved forest. Includes present Reddipalle plantation, 924 acres.
	Cuddapah	Kamalápuram plantation .	500	1	..	..	500	1		Proposed as reserved forest. Includes present Kamalápuram plantation, 263 acres.
	Kódúr	Settigunta	8,960	14	..	..	8,960	14		Proposed as reserved forest. Includes Balapalle, east reserve, 4,484 acres.
	Do.	Kódúr	9,600	15	..	..	9,600	15		Proposed as reserved forest. Includes Kódúr Hill reserve, 4,687 acres.
	Kódúr and Rájampet ..	Salivendra	19,200	30	..	..	19,200	30		Proposed as reserved forest. Includes area of 7,680 acres called Salivendra sanctioned for reservation, but not reserved.
	Do. ..	Chitvél	10,240	16	..	..	10,240	16		Proposed as reserved forest.
	Rájampet	Vattulur hill	3,200	5	..	..	3,200	5	Collector's notice, dated 6th Mar. 1884.	
	Kódúr, Ráyachóti and Váyalpád.	Sheshachellam	115,200	180	..	..	115,200	180		Proposed as reserved forest. This area includes the present reserves known as Balapalle, west, 6,307 acres; Vayitekona, 3,595 acres; Yerraguntlakota, 3,487 acres; Rollakonda, 1,565 acres, and Gadela, 9,682 acres.
	Rájampet and Ráyachóti.	Rollamadugu	49,920	78	..	..	49,920	78		Proposed as reserved forest. Includes area called Mudampad, 8,960 acres, sanctioned for reservation, but not reserved.
	Do. ..	Gadikota	16,000	25	..	..	16,000	25		Proposed as reserved forest. Includes the area called Gadikota, 4,480 acres, sanctioned for reservation, but not reserved.
	Cuddapah, Ráyachóti and Sidhout.	Pálkonda	81,920	128	..	..	81,920	128		Proposed as reserved, forest. Includes the area called Wongimulla, 21,120 acres, sanctioned for reservation, but not reserved.

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
uddapah—*cont.*	Cuddapah, Ráyachóti and Pulivendla.	Idupulapaya	28,160	44	..	..	28,160	44	Collector's notice, dated 6th March 1884.	Proposed as reserved forest. Includes the area called Gulavacheruvu, 14,720 acres, sanctioned for reservation, but not actually reserved.
	Badvél	Kavalakuntla	11,520	18	..	..	11,520	18		
	Do.	Ganugapenta	17,280	27	..	..	17,280	27		
	Do.	Gopavaram	13,440	21	..	..	13,440	21		
	Radvél and Sidhout ..	Ramapuram	7,680	12	..	..	7,680	12		
	Sidhout	Malliankonda	14,080	22	..	..	14,080	22		
	Do.	Konarazupalle	9,600	15	..	..	9,600	15		
	Do.	Vontimitta	5,760	9	..	..	5,760	9		
	Sidhout and Rájampet ..	Kanakalakonda	6,400	10	..	..	6,400	10		
	Do. ..	Pólúr	7,680	12	..	..	7,680	12		
	Sidhout and Cuddapah ..	Kanamalapalle	9,690	15	..	..	9,690	15		Proposed as reserved forest.
	Sidhout, Cuddapah and Badvél.	Lankamala	112,640	176	..	..	112,640	176		
	Badvél	Kottakota	38,400	60	..	..	38,400	60		
	Badvél and Proddutur ..	Dasaripalle	66,560	104	..	..	66,560	104		
	Do. ..	Kanchalamaram	8,960	14	..	..	8,960	14		
	Ráyachóti	Sibbayala	3,840	6	..	..	3,840	6		
	Do.	Isundupalle	4,480	7	..	..	4,480	7	Collector's notice dated 6th December 1884.	
	Do.	Madhavaram	5,120	8	..	..	5,120	8		
	Do.	Vandadi hill	3,200	5	..	..	3,200	5		
	Ráyachóti and Váyalpád.	Urukonda	8,960	14	..	..	8,960	14		Proposed as reserved forest. Includes present Nadimcherla reserve, 2,000 acres.
	Madanapalle, Ráyachóti and Váyalpád.	Bekkalakonda	6,400	10	..	..	6,400	10		Proposed as reserved forest. Includes present Rekkalakonda reserve, 1,200 acres.
	Váyalpád	Yellutla	7,680	12	..	..	7,680	12		Proposed as reserved forest and contains present Yellutla reserve, 3,500 acres.
	Do.	Gujjibuchukona	320	½	..	..	320	½		Proposed as reserved forest and now the Gorantapalle reserve.
	Do.	Yerrumaralajedu	3,680	5½	..	..	3,680	5½		
	Do.	Ankalammakonda ..	2,800	4	..	..	2,800	4		Proposed as reserved forest and now the Ankulammakonda reserve.
	Do.	Nurukupalakonda ..	3,700	5½	..	..	3,700	5½		Proposed as reserved forest and now the Nurukupalakonda reserve.
	Madanapalle	Tavalam	5,120	8	..	..	5,120	8		
	Do.	Mahdanikonda	1,920	3	..	..	1,920	3		Proposed as reserved forest.

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Madanapalle	Pentzapad	1,920	3	..	..	1,920	3		Proposed as reserved forest.
	Do.	Analakonda	4,480	7	..	..	4,480	7		
	Do.	Aludineadugu	1,920	3	..	..	1,920	3		
	Do.	Horsleykonda	9,630	15	..	..	9,630	15		Proposed as reserved forest and now the Horsleykonda reserve.
	Do.	Madugamala	2,560	4	..	..	2,560	4		Proposed as reserved forest and includes the Kosemaripalle reserve, 1,400 acres.
	Do.	Malliakonda	2,200	3½	..	..	2,200	3½		Proposed as reserved forest and now the Malliahkonda reserve.
	Do.	Nallakonda, Kotammakonda and Errakasikonda.	3,840	6	..	..	3,840	6	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest and includes the Sompalle reserve, 800 acres.
	Kadiri	Ishwaramala	15,360	24	..	..	15,360	24		Proposed as reserved forest.
	Do.	Kokanti	2,000	3	..	..	2,000	3		
	Do.	Kadiri	10,240	16	..	..	10,240	16		Proposed as reserved forest and now the Kokanti reserve.
	Do.	Vellichellamala	2,560	4	..	..	2,560	4		
	Do.	Therumaladavarakonda ..	9,600	15	..	..	9,600	15		
	Do.	Nigadi	19,000	30	..	..	19,000	30		Proposed as reserved forest and now the Nigadi reserve.
	Kadiri and Pulivendla ..	Gorivikanama	28,800	45	..	..	28,800	45	Pulivendla .. 31 Kadiri .. 14	Proposed as reserved forest and includes Gorivikanama reserve, 18,000 acres.
	Do. ..	Doriguila	30,720	48	..	..	30,720	48	Pulivendla .. 24 Kadiri .. 24	Proposed as reserved forest.
	Kadiri	Kukaravukonda	5,120	8	..	..	5,120	8		
	Do.	Tumala	25,600	40	..	..	25,600	40		
	Do.	Malakavemulu	1,920	3	..	..	1,920	3	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest and includes part of reserved area now known as Malakavemulu, 5,500 acres.
	Do.	Tummalamala	6,400	10	..	..	6,400	10		
	Do.	Kondakomerla	3,200	5	..	..	3,200	5		Proposed as reserved forest and includes part of reserved area now known as Kondakomerla, 2,700 acres.
	Do.	Somarazumala, east ..	1,280	2	..	..	1,280	2		Proposed as reserved forest and includes part of reserved area known as Kondakomerla.
	Kódúr	Settigunta	960	1½	..	..	960	1½	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
	Do.	Yerraguntlakota	6,400	10	..	..	6,400	10		

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Rájampet	Ananthasamudram ..	10,240	16	..	..	10,240	16	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
	Do.	Sanipaya ghât	3,200	5	..	..	3,200	5		
	Sidhout	Turupukondala	7,040	11	..	..	7,040	11		
	Do.	Ippakanama	1,600	2½	..	..	1,600	2½		
	Badvél	Kalsapad	6,400	10	..	..	6,400	10		
	Do.	Sancherla	5,760	9	..	..	5,760	9		
	Do.	Tsallagirigola	1,280	2	..	..	1,280	2		
	Do.	Badvél	1,920	3	..	..	1,920	3		
	Cuddapah and Pulivendla.	Ganganapalle	57,600	90	..	..	57,600	90		
	Do. ..	Chelakampalle	9,600	15	..	..	9,600	15		
	Ráyachóti	Bramanayerragudi ..	7,680	12	..	..	7,680	12		
	Do.	Haskapuram	23,040	36	..	..	23,040	36		
		Total ..	1,062,680	1,660	..	..	1,062,680	1,660		
Kurnool ..	Sirvel and Nandyál ..	Sirvel	128,000	200	..	..	128,000	200	Collector's notification of 6th Dec. 1884.	Areas approximate only.
	Nándyal and Nandikótkur.	Nandyál	192,000	300	..	..	192,000	300		
	Nandikótkur	Nandikótkur	256,000	400	..	..	256,000	400		
	Cumbum	Uyalawada	448,000	700	..	..	448,000	700		
	Cumbum and Márkápur.	Cumbum								
	Márkápur	Markapur								
	Cumbum	Northern Veligondas ..	19,200	30	..	..	19,200	30		
	Do.	Southern do. ..	19,200	30	..	..	19,200	30		
	Do.	Western do. ..	10,800	17	..	..	10,800	17		
		Total ..	1,073,200	1,677	..	..	1,073,200	1,677		
Bellary ..	Kúdligi and Hospet ..	Bandri	7,000	11	..	..	7,000	11	Notification of 15th Oct. 1884.	
	Hospet	Gound	3,000	4¾	..	..	3,000	4¾		
	Do.	Hospet	5,000	8	..	..	5,000	8		
	Do.	Jog	4,000	6¼	..	..	4,000	6¼		
	Do.	Oblagudi	1,000	1⅝	..	..	1,000	1⅝		
	Bellary	Bellary	8,000	12⅝	..	..	8,000	12⅝		
	Do.	Mincheri	4,000	6¼	..	..	4,000	6¼		
	Hospet	Tornagal	2,100	3¼	..	..	2,100	3¼		
	Kúdligi	Sherbi	3,000	4½	..	..	3,000	4½		

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Bellary—*cont.*	Kúdligi	Gollalinganhalli	1,000	1½	..	..	1,000	1½		
	Do.	Tumurgudi	2,500	4	..	..	2,500	4		
	Do.	Somalapur	1,000	1½	..	..	1,000	1½		
	Do.	Sonkadakal	7,000	11	..	..	7,000	11		
	Do.	Shivpur	9,000	14	..	..	9,000	14		
	Adóni	Adóni, west	5,000	8	..	..	5,000	8		
	Do.	Do. east								
	Do.	Ganekola	1,118	1¾	..	..	1,118	1¾		
	Do.	Badenahalli	792	1¼	..	..	792	1¼		
	Do.	Kotalam	681	1	..	..	681	1		
	Do.	Halekota	486	¾	..	..	486	¾		
	Do.	Sulakeri	1,342	2¼	..	..	1,342	2¼		
	Do.	Kupgul	4,650	7¼	..	..	4,650	7¼	Notification of 15th Oct. 1884.	Areas approximate only.
	Do.	Tungabhadra	4,633	7¼	..	..	4,633	7¼		
	Do.	Halevy	1,145	1¾	..	..	1,145	1¾		
	Do.	Kosgi	2,970	4¾	..	..	2,970	4¾		
	Do.	Nandavaram	971	1½	..	..	971	1½		
	Do.	Rayachôti	1,863	2¾	..	..	1,863	2¾		
	Do.	Kurimetla	3,341	5¼	..	..	3,341	5¼		
	Do.	Bunivasi	1,964	3¼	..	..	1,964	3¼		
	Do.	Kotakallu	2,569	4	..	..	2,569	4		
	Do.	Kudbur	2,952	4¾	..	..	2,952	4¾		
	Hadagalli and Harpanahalli.	Harada	18,000	28¼	..	..	18,000	28¼		Entered in the Collector's return, but not found in the District Gazette.
	Do.	Sogy	4,200	6½	..	..	4,200	6½		
		Total	116,277	183	..	..	116,277	183		
Anantapur	Penukonda	Kottakota	3,840	6	..	..	3,840	6	Collector's notification of 7th Feb. 1885.	Areas approximate only.
	Do.	Narasampalli	3,840	6	..	* 1,280	2,560	4		
	Do.	Somarazmullai, west	2,130	3	..	* 1,920	210	..		
	Muchukota	Muchukota	7,040	11	..	..	7,040	11		
		Total	16,850	26	..	3,200	13,650	21		
Nílgiris	Ootacamund	Aramby	430		..	430	..	..	Collector's notification of 17th Nov. 1884.	Nearly all transferred to reserved forests form 59-A.
	Do.	Cairn hill	405		..	405	..	..		

* Transferred to form 59-A.

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris—*cont.*	Ootacamund	Nanjanad	3,822	11	..	2,495	1,327	2	Collector's notification of 17th November 1884.	Nearly all transferred to reserved forests form 59-A.
	Do.	Chemenguli	1,745		..	844	901	1		
	Do.	Muthanad	420		..	420	..	..		
	Do.	Marliamund	17		..	17	..	..		
	Naduvatam	Naduvatam	4,966	8	..	..	4,966	8		
	Mudumalai	Benne	10,317	16	..	10,317	..	..		
	Coonoor	Ghât reserve	246		..	246	..	..		
	Do.	Sim's Park, block No. 1	48		..	48	..	..		
	Do.	Do. ,, 2	36		..	36	..	..		
	Do.	Springfield block	35		..	35	..	..		
	Do.	Bleakhouse	52		..	52	..	..		
	Do.	Bandy shola	111	3	..	111	..	..		
	Do.	Coonoor peak	259		..	259	..	..		
	Do.	Brookland's shola	14		..	14	..	..		
	Do.	Lamb's rock shola	259		..	259	..	..		
	Do.	Tiger hill	314		..	314	..	..		
	Do.	Blackbridge	390		..	390	..	..		
	Ootacamund	Snowdon	1,053		..	1,053	..	..		
	Do.	Dodabetta, block No. 1	310		..	..	310	1		
	Do.	Do. ,, 2	444		..	329	115	..		
	Do.	Kótagiri trace shola, No. 1.	20		..	20	..	..		
	Do.	Kótagiri trace shola, No. 2.	32		..	32	..	..		
	Do.	Craigmore	299	4	..	299	..	..		
	Do.	Elk hill	77		..	77	..	..		
	Do.	Lovedale, east	127		..	127	..	..		
	Do.	Do. west	74		..	74	..	..		
	Do.	Munjinikorai	17		..	17	..	..		
	Do.	Bathri shola	34		..	34	..	..		
	Do.	Therma tope	64		..	64	..	..		
	Do.	Marliamund shola	75		..	75	..	..		
	Kótagiri	Longwood	288		..	288	..	..		
	Do.	Nott shola	8		..	8	..	..		
	Do.	Kesalbada shola	156	1	..	156	..	..		
	Do.	Kunnavara	100		..	100	..	..		
	Do.	Kerbetta	12		..	12	..	..		
	Coonoor	Kullar	933		..	933	..	..		
	Do.	Aduthore	780		..	780	..	..		

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nilgiris—*cont.*	Coonoor	Barliyár	216	4	..	216	..	..		Nearly all transferred to reserved forest form 59-A.
	Do.	Lamb's rock, No. 2 ..	457		..	457	..	..		
	Do.	Hillgrove	155		..	155	..	..		
	Do.	Ben hope	46		..	46	..	..		
		Total ..	29,663	47	..	22,044	7,619	12		
	Abstract	Nellore	..	..	2,933	..	2,933	5		
		Cuddapah	1,062,680	1,660	..	..	1,062,680	1,660		
		Kurnool	1,073,200	1,677	..	..	1,073,200	1,677		
		Bellary	116,277	183	..	..	116,277	182		
		Anantapur	16,850	26	..	3,200	13,650	21		
		Nilgiris	29,663	47	..	22,044	7,619	12		
		Total ..	2,298,670	3,593	2,933	25,244	2,276,359	3,557		

Annual Form No 59-D.

Forest Department, Madras, Northern Division.

Area of leased forests, 1885-86.

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Remarks.
Bellary	Sandúr	Sandúr	40,000	62½	..	..	40,000	62½	Rectification of area.
Nilgiris	Mudumalai	Mudumalai	128,000	200	..	40,715	47,285	74	
		Total ..	168,000	262½	..	40,715	87,285	136½	

Annual Form No. 60.

Forest Department, Madras, Northern Circle.

Area of Plantations, 1885-86.

District.	Range.	Name of Plantation.	On 1st April 1885.		Added during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Godávari	Narsápur	Rustambadu	24	4,153	..	..	24	4,153	Formed in 1866-67.
		Sitarampuram	26				26		
	Amalápuram ..	Bendamurlunka (Old)	27	2,014	..	..	27	2,014	Do. in 1875-76.
		Do. (New)	20	1,011	..	133	20	1,144	Do. in 1882-83.
		Total ..	97	7,178	..	133	97	7,311	
Kistna	Bandar	Karrimid	20	232	..	130	20	362	
		Mugudham	15½	179	..	60	15½	239	
		Arisepallt	25	287	..	69	25	356	
		Masulipata-msepoy lines	..	..	46	1,229	46	1,229	
	Gudiváda	Kódúr	38	118	..	56	38	174	
		Konkolu	17	965	..	184	17	1,149	
		Allinagaram	125	365	..	306	125	671	
		Korlapadu	20	144	..	63	20	207	
		Mandaralli	20	145	..	64	20	209	
		Iyawar Rudravaram	20				20		
		Banninampadu	26	195	..	55	26	250	
		Vemarrapadu	16	186	..	64	16	250	
		Venudhuru	64	198	..	92	64	290	
	Bezváda	Ibrampatam	24	126	..	69	24	195	
	Krósúr	Gannavaram	39	115	..	54	39	169	
	Palnád	Thurmerikodu	21	281	..	55	21	336	
	Bápatla	Bápatla	21	403	..	82	21	485	
		Karlapalem	236	3,669	..	140	236	3,809	
		Vedhullapalle	20	288	..	83	20	371	
		Chirala	17	1,209	..	82	17	1,291	
		Wardarevu	23	3,425	..	74	23	3,499	
		Ammilapeta	26	1,676	..	83	26	1,759	
		Nayanipalli	17	938	..	83	17	1,021	
		Pandhillapalli	49	281	..	82	49	363	
		Total ..	899½	15,425	46	3,259	945½	18,684	
Nellore	Gúdúr	Dugarázpatnam	425	32,559	30	2,631	455	35,190	Commenced in 1873.
		Kothapatnam	355	26,308	30	1,833	385	28,141	
		Tamminapatam	475	39,957	10	1,804	485	41,761	Do.
		Kasba	4	18	— 4	— 18	..	..	Given up.
		Chandrasikuppam	..	..	10	218	10	218	

Area of plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nellore—*cont.*	Nellore	Allipuram	39	9,230	..	48	39	9,278	Commenced in 1873.
		Utukúr	180	15,165	..	801	180	15,966	Do. in 1875.
		Varani	292	33,885	..	767	292	34,652	Do. in 1874.
		Iskápalle	19½	943	— 19½	— 943	..	..	Cleared and abandoned.
	Atmakúr	Mamudúr	9	1,434	..	..	9	1,434	
	Kávali	Tummalapenta	54	18,620	..	48	54	18,668	Commenced in 1873.
	Kandukúr	Ramayapatnam	40	19,458	..	48	40	19,506	
	Ongole	Kothapatnam	35	14,618	..	48	35	14,666	
		Kanuparti	20½	16,450	..	48	20½	16,498	Commenced in 1873.
	Gúdúr	Kottapatam cocoanut plantation ..	20	1,252	— 20	— 1,252	..	..	Do. in 1863; abandoned.
		Total ..	1,968	2,29,897	+ 80 — 43½	8,294 — 2,213	2,004½	2,35,978	
Cuddapah	Kódúr	Kódúr	37	6,846	..	92	37	6,938	Commenced in 1865.
		Uparapalle	108	8,183	..	72	108	8,255	Do. in 1868-69.
		Reddipalle	925	13,088	..	72	925	13,160	Do. in 1869-70.
	Rájampet	Pullampet	426	7,813	..	79	426	7,892	Do. in 1871.
	Cuddapah	Kamalápuram	332	10,018	..	72	332	10,090	Do. in 1869.
	Kódúr	Arimanabunda	4	354	..	166	4	520	Do. in 1883-84.
		Total ..	1,832	46,302	..	553	1,832	46,855	
Anantapur	Gooty-Tadpatri ..	Khojjapalle	331	48	— 331	— 48	..	..	Excluded as not *really* a plantation strictly speaking. It is now a reserved forest.
		Total ..	331	48	— 331	— 48	..	..	
Nilgiris	Ootacamund ..	Mudumalai	101	27,402	..	97	21 80	27,499	
		Benne							
		Northernhay	23	10,200	..	..	23	10,200	Old "Sigúr" plantation.
		Governor's shola	277	10,135	..	135	277	10,270	Includes the old plantations of Hoopatti, Andy, Sheffield, Cully, Choughat cully, Baikie and Madana.
		Chemenguli	33	3,861	..	..	33	3,861	Commenced in 1879.
		Muthanad	95	6,686	..	8	95	6,694	Do. in 1880.
		Brook lands	10	328	..	..	10	328	Do. in 1862.
		Aramby	165	9,145	25 8*	1,749	198	10,894	Commenced in 1863, includes Koolie plantation. * To rectify area.
		Marliamund	11	830	..	..	11	830	Commenced in 1860.
		Snowdon	7	214	..	..	7	214	Do. in 1860.
		Cairn hill	130	7,027	+ 22 — 7*	2,098	145	9,125	Do. in 1877. * To rectify area.

Area of plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nílgiris—*cont.*	Ootacamund—*cont.*	Devashola	14	1,637	..	..	14	1,637	Commenced in 1880.
		Blackbridge	56	1,921	..	..	56	1,921	Do. in 1874. Includes rock plantation.
		Bleakhouse	235	4,488	..	7	235	4,495	Commenced in 1857.
		Bandyshola							
		Coonoor peak	200	4,490	7 —5 *	482	202	4,972	Do. in 1872. * To rectify area.
		Tippakutchi	35	783	..	..	35	783	Commenced in 1882.
		Rallia	105	2,571	..	..	105	2,571	
		Total ..	1,497	91,718	62 —12	4,576	1,547	96,294	
			CULTURAL OPERATIONS.						
Ganjam	Goomsur	Mojagodo	3½	576	..	33	3½	609	Formed in 1869-70.
		Total ..	3½	576	..	33	3½	609	
Vizagapatam ..	Pálkonda	Voni	25	451	..	..	25	451	
		Lakshmipuram	26	619	..	..	26	619	
		Total ..	51	1,070	..	..	51	1,070	
Nellore	Kávali and Kandukúr.	....	..	50	..	274	..	324	Miscellaneous sowings in forest and among prickly-pear (40,700 pits dug and sown).
	Gúdúr	Sríharikót	..	412	..	267	..	679	Sowing and planting of blanks in the natural jungle.
		Total ..	..	462	..	541	..	1,003	
Cuddapah	Cuddapah	Kamalápuram	10	..	..	..	10	..	Babul Drisanam sown broad-cast; most of the seeds failed to germinate.
		Do.	..	..	4	16	4	16	Sown with babul by goats and sheep in April 1885 and March 1886.
		Do.	5	22	3	30	8	52	Sown with Drisanam and Vepa. Some of the Drisanam were planted out in baskets.
		Do.	..	..	27	38	27	38	Sown with palmyras.
		Do.	..	..	5	3	5	3	Sowings of Drisanam and Vepa in prickly-pear.
		Appaiapalle	..	..	2	..	2	..	Do. do.
		Do.	..	..	7	10	7	10	

Area of plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			CULTURAL OPERATIONS—*cont.*						
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.*	Rájampet	Pullampet	40	40	23	39	63	79	Sown with Tangedu seeds in furrows.
		Do.	..	..	15		15		Do. do. after thorough ploughing.
	Kódúr	Reddipalle	..	..	5	..	5	..	Sown with Yepi but failed.
		Balapalli west reserve evergreen forest, compartment 5-*b*.	12	9	..	..	12	9	Seed dibbled in.
		Balapalli working circle compartment 6-*b*.	..	..	15	50	15	50	Planted with red sanders seedlings in baskets from Kódúr plantation.
		Kódúr tope	6	5	..	..	6	5	Sown with Tangedu seeds but failed.
		Gandikota reserve	50	5	270	13	320	18	Seeds dibbled in.
		Pennér river bank near Proddutur.	18	5	89	68	107	73	Sown with palmyra and date.
	Váyalpád	Ankalammakonda	..	..	15	20	15	20	
	Kádiri	Nigadi	..	..	3	..	3	..	
	Kódúr	Balapalle	..	..	2	250	2	250	Nurseries.
	Madanapalle ..	Horsleykonda	..	..	1	..	1	..	
		Total ..	141	86	486	537	627	623	
Kurnool	Nandyál	Orwakul	46	30	..	..	46	30	Commenced in 1883-84.
	Nandikótkur ..	Mandlam	10	10	..	..	10	10	
		Total ..	56	40	..	..	56	40	
Bellary	Hospet	Gandlavattugiri	4	..	..	..	4	..	
		Nayanahalli	10	..	..	..	10	..	
		Total ..	14	..	..	..	14	..	
		Total plantations ..	6,624½	3,90,568	—2,06½	14,554	6,426	4,05,122	
		Total cultural operations ..	265½	2,234	486	1,111	751½	3,345	
		Grand Total ..	6,890	3,92,802	279½	15,665	7,177½	4,08,467	

Annual Form No. 61.

Forest Department, Madras, Northern Circle.

Annual statement of topes.

District.	Taluk.	Number of topes.	Area.	Cost.		Remarks.
				During year.	To end of year.	
			acs.	rs.	rs.	
Ganjam ..	Berhampore	3	13	..	..	Coast near Chatrapur. Casuarina, &c.
	Goomsur	1	83	..	162	Includes some forest.
	Chicacole	3	5	..	..	Coast. Cashew, margosa, &c.
Vizagapatam ..	Pálkonda	2	56	..	8	Mixed trees.
Godávari ..	Rámachandrapuram ..	8	30	..	..	
Kistna	Bandar	2	9	235	251	In Masulipatam.
	Gudiváda	1	5	48	170	
	Bezváda	2	9	93	323	
	Nandigáma	1	11	48	185	
	Vinukonda	1	6	44	166	
	Narsaraopet	1	7	44	131	
	Sattanapalle	1	6	..	..	
	Bápatla	1	2	46	1,204	
	Répalle	1	1	..	..	
Nellore	Gúdúr	11	124	50	3,206	
	Rápúr	15	183	..	8,533	
	Nellore	33	380	..	6,599	
	Venkatagiri	3	12	..	4,420	
	Atmakúr	9	130	..	2,793	
	Kávali	17	742	..	4,190	
	Udayagiri	4	29	..	2,665	
	Kandukur	6	13	..	1,853	
	Kanigiri	5	19	..	1,408	
	Ongole	4	107	..	1,212	
	Podili	4	13	..	1,165	
Cuddapah ..	Pullampet	7	69	142	5,249	
	Sidhout	4	40	100	7,940	
	Badvél	6	63	129	2,465	
	Proddutur	2	32	..	516	
	Jammalamadugu ..	9	309	118	12,219	
	Pulivendla	10	638	153	4,545	
	Cuddapah	8	155	254	5,719	
	Kadiri	8	73	47	2,125	
	Madanapalle	8	68	225	6,048	
	Ráyachóti	5	95	81	1,615	
	Váyalpád	3	30	62	3,425	
	All	..	5,764	..	..	Scattered trees in villages
Kurnool ..	Rámallakót	7	66	9	839	
	Pattikonda	5	29	..	1,879	
	Kóilkuntla	4	9	36	3,683	
	Nandikótkur	1	2	48	213	
	Nandyál	3	33	99	977	
	Sirvel	1	6	48	147	
	Cumbum	3	23	48	175	
	Márkápur	3	14	..	257	
Bellary	Bellary	6	86	..	..	
	Kúdligi	4	9	..	..	
	Hadgalli	2	11	..	41	
	Harpanahalli	2	3	..	..	
	Alúr	11	101	..	..	
	Adóni	6	30	98	186	
Anantapur ..	Anantapur	6	154	29	269	
	Gooty	9	204	..	48	
	Tadpatri	21	1,037	..	48	
	Dharmavaram	29	1,555	302	2,078	
	Hindupur	17	127	..	90	
	Penukonda	11	303	..	..	
	Madakasíra	5	26	..	36	
Nílgiris	Coonoor	1	2	403	469	Experimental garden
	Total ..	366	13,161	3,039	1,03,945	

ANNUAL FORM No. 62.

Forest Department, Madras, Northern Circle.

AREA of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86.

District and Range.		Forest Tract.	Up to 15th June 1885.		During dry season of 1885-86.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Ganjam	Berhampore	Mohiri hills	15,200	131	19,200	1	19,199	174	305	1885	Specially protected.
	Kukuluba	Chondargiri and Ambazara	46,045	353	46,045	..	46,045	..	353	,,	
	Mojagodo	Baibali and Darpangia	21,775	125	21,775	..	21,775	..	125	,,	
		Total ..	83,020	609	87,020	1	87,019	174	783		
Kistna..	Bezváda	Kondapalle	8,320	470	8,320	..	8,320	270	740	1884	Specially protected.
	Vinukonda	Bollapalle	6,000	378	6,400	..	6,400	236	614	1885	
	Palnád	Mutukur	6,400	40	6,400	..	6,400	55	95	,,	
		Madhinapadu	1,920	80	1,920	..	1,920	30	110	,,	
		Total ..	22,640	968	23,040	..	23,040	591	1,559		
Nellore..	Rápúr	Rápúr Veligondas	10,000	60	14,000	1,000	13,000	..	60	1885	Ordinary staff.
	Udayagiri	Udayagiri	8,000	60	9,360	1,360	8,000	10	70	,,	
	Kanigiri	Kanigiri	28,000	..	34,000	..	34,000	..	..	,,	
		Total ..	46,000	120	57,360	2,360	55,000	10	130		
Cuddapah.	Kódúr	Ballipalle, West	6,307	1,195	6,307	..	6,307	156	1,351	1867	Specially protected.
		Do. East	6,404	1,232	6,404	..	6,404	157	1,389	1871	
		Kódúr hill	4,687	814	4,687	..	4,687	99	913	1874	
		Vagetikona	3,595	424	3,595	..	3,595	42	466	,,	
		Yerraguntlakota	3,487	734	3,487	..	3,487	122	856	1873	
		Rallakonda	1,565	272	1,565	..	1,565	49	321	1879	
		Gadela	9,682	487	9,682	..	9,682	62	549	1874	
		Thanakonda..	978	318	1,048	..	1,048	33	351	,,	
	Rájampet	Rellamadugu	5,424	142	5,424	..	5,424	12	154	1878	
		Srirangarazupallium	4,800	399	4,800	160	4,640	163	562	1883	
	Kadiri	Nigadi	14,000	467	14,000	..	14,000	110	577	1881	
		Malakavemula	6,000	249	8,500	20	8,480	70	319	,,	
		Kondakomerla	3,700	170	3,700	..	3,700	18	188	,,	
		Thummala	2,495	218	2,495	..	2,495	9	227	,,	
		Kokanti	2,000	144	2,000	..	2,000	18	162	,,	
		Gorivikanama	18,000	195	18,000	..	18,000	..	195	,,	Ordinary staff.

Area of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86—*continued.*

District and Range.	Forest Tract.	Up to 15th June 1885.		During dry season of 1885-86.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS		
Cuddapah—*cont.* Madanapalle	Rekkalakonda	1,200	153	1,200	..	1,200	2	155		
	Mallayakonda	2,200	181	2,200	..	2,200	2	183		Specially protected.
	Kosuvaripalle	1,400	118	1,400	..	1,400	2	120		
	Soampalle	800	98	800	..	800	..	98		Ordinary staff.
	Horsleykonda	9,620	352	9,630	..	9,630	32	384		
	Yellutla	3,500	186	3,500	..	3,500	9	195	1881	
	Nadimcherla	2,000	179	2,000	..	2,000	9	188		
Váyalpád	Nurukuppalakonda	4,600	253	4,600	..	4,600	25	278		
	Ankalammakonda	2,000	242	2,000	..	2,000	25	267		
	Gorantlapalle	4,000	172	4,000	..	4,000	9	181		
Cuddapah	Mamillapalle	3,000	378	3,000	564	2,436	80	458		Specially protected.
Cuddapah and Ráyachóti.	Guvalacheruvu	7,600	289	7,600	..	7,600	62	351		
Ráyachóti	Gadikota	11,988	415	12,000	..	12,000	85	500	1883	
Sidhout	Arapayakanama	8,800	284	9,000	7,000	2,000	95	379		
Bádvel	Kottakota	7,035	150	7,200	8	7,192	103	253	1885	
	Mudireddipalle	8,985	303	9,000	200	8,800	196	499	1883	
	Rámeswéram	91	28	91	..	91	..	28		
	Thalamapuram	153	33	153	..	153	..	33		
	Vellala	258	33	258	..	258	..	33		Ordinary staff.
	Alladupalle	197	32	197	..	197	..	32		
Proddutur	Payadala	99	18	99	..	99	..	18		
	Nidijuvi	696	74	696	..	696	4	78		Specially protected.
	Kothapalle	120	18	120	..	120	..	18		Ordinary staff.
	Kalamalla	430	60	430	..	430	2	62		Specially protected.
	Modanathipalle	86	18	86	..	86	..	18		
	Ananthapuram	138	18	138	..	138	..	18		Ordinary staff.
	Kallur	160	17	160	..	160	..	17	1881	
	Kondasankesula	858	62	858	..	858	5	67		
	Gandikota	372	66	372	..	372	5	71		
	Kosinepalle	300	51	300	..	300	..	51		
	Yamavaram	300	61	200	..	200	5	66		
	Dhodiem	689	38	689	..	689	..	38		
Jammalamadugu	Murupandi	786	38	786	..	786	..	38		Specially protected.
	Malamedikambaladinne	787	57	787	..	787	5	62		
	Kódúr	579	55	579	..	579	5	60		
	Aravetipalle	200	22	200	..	200	..	22		
	Denepalle	350	18	350	..	350	..	18		
	Peddadudiala	300	24	300	..	300	..	24		
	Total	179,801	12,054	182,673	7,952	174,721	1,887	13,941		

Area of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86—*continued*

District and Range.		Forest Tract.	Up to 15th June 1885.		During dry season of 1885-86.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Kurnool..	Atmakúr	Atmakúr-Velgode	17,280	1,510	16,000	1,500	14,500	970	2,480	1884	Specially protected.
		Total ..	17,280	1,510	16,000	1,500	14,500	970	2,480		
Bellary.	Sandúr	Sandúr	2,750	927	2,750	..	2,750	36	963	1883	Specially protected.
		Hospet	1,050	698	1,050	..	1,050	14	712		
		Venkatagiri	1,150	270	1,150	..	1,150	15	285		
		Gound	5,050	331	5,050	..	5,050	66	397		
		Gurga	2,430	488	2,430	..	2,430	32	520		
		Kanavahalli	4,160	375	4,160	..	4,160	54	429		
		Dharmapúr	2,150	274	2,150	..	2,150	28	302		
		Basapúr	2,030	128	2,230	..	2,230	29	157		
		Konapúr	1,960	141	1,960	..	1,960	26	167		
		Honsahatti	3,760	120	3,760	720	3,040	49	169		
		Kakbal	3,240	152	3,240	1,200	2,040	42	194	1885	
		Joga	2,440	198	2,440	800	1,640	32	230		
		Madarhalli	2,380	156	2,380	2,380	..	31	187		
	Western	Shivpur	9,000	53	9,000	..	9,000	64	117		
	Bellary	Malpangudi	700	139	700	..	700	61	200	1884	
		Total ..	44,250	4,450	44,450	5,100	39,350	579	5,029		
Anantapur.	Penukonda	Kottakota	5,120	332	5,120	..	5,120	212	544	1884	Specially protected.
	Muchukota	Muchukota	16,000	1,186	16,000	..	16,000	550	1,736		
	Hindupúr	Amagondapolliam	15,360	198	15,360	..	15,360	143	341		
		Dokulkonda	2,880	15	2,880	..	2,880	14	29	1885	Fire patrols only.
		Somarazmalai	1,920	15	1,920	..	1,920	14	29		
		Total ..	41,280	1,746	41,280	..	41,280	933	2,679		
Nílgiris.	Mudumalai	Mudumalai plantation	101	671	101	..	101	285	956	1883	Ordinary staff and fire-patrols.
		Benne plantation									
		Northernhay	23	435	23	..	23	124	559		
	Ootacamund	Aramby	430	136	430	..	430	41	177		
		Marliamund plantation	17	89	17	..	17	36	125		
		Governor's shola	670	344	1,341	..	1,341	115	459		
		Cairn hill	403	112	403	..	403	42	154		
		Pykara	844	53	844	..	844	22	75		
		Muthanád	457	114	457	..	457	57	171		
		Snowdon	987	51	987	..	987	13	64		
		Dodabetta	826	46	826	..	826	16	62		
		Elk hill	77	118	184	..	184	43	161		

Area of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86—*continued.*

District and Range.	Forest Tract.	Up to 15th June 1885.		During Dry season of 1885-86.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Nilgiris. Coonoor	Kullár	883	44	933	130	803	17	61	1883	Ordinary staff and fire-patrols.
	Aduthore	780	34	780	20	760	12	46		
	Barliyár	126	38	126	..	126	23	61		
	Hulikal	2,280	118	2,280	..	2,280	58	176		
	Rallia	105	102	105	..	105	53	155		
	Lamb's rock	716	71	716	..	716	80	151		
	Commandu	..	..	993	..	993	61	61		
	Tiger hill	317	20	317	..	317	33	53		
	Ghát reserve	261	39	261	..	261	28	67		
	Coonoor peak	256	58	256	..	256	35	93		
	Hillgrove	155	28	155	..	155	3	31		
	Benhope	46	37	46	..	46	11	48		
	Sim's park and spring field	70	25	70	..	70	12	37		
	Bandyshola	111	19	111	..	111	18	37		
	Devashola, north and south	..	..	214	..	214	47	47		
	Bleak house	56	33	56	..	56	6	39		
	River reserve	53	26	53	..	53	21	47		
	Black bridge	391	33	391	..	391	50	83		
	Town shola	11	12	11	..	11	4	16		
	Brook lands	14	17	14	..	14	14	31		
Kótagiri	Longwood	292	217	292	30	262	35	252	1885	
Naduvatam	Cost of patrolling	..	36	..	..	..	29	65		
Kundah	Do.	..	48	..	..	..	37	85		
	Total ..	11,758	3,224	13,793	180	13,613	1,481	4,705		
	ABSTRACT.									
Total ..	Specially protected	363,369	20,799	369,561	14,553	355,008	5,106	25,905		
	Ordinary staff	82,660	3,882	96,055	2,540	93,515	1,519	5,401		
	Grand Total ..	446,029	24,681	465,616	17,093	448,523	6,625	31,306		

ANNUAL FORM No. 63.

Forest Department, Northern Circle, Madras.

Prosecutions for breaches of forest rules during 1885-86.

District.	Cases pending from 1884-85.	NEW CASES OF THE YEAR.					Total cases.	DISPOSED OF DURING THE YEAR.						Cases pending at the close of the year.
		Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ganjam ..	7	..	122	..	..	122	129	79	247	36	105	115	352	14
Vizagapatam..	1	..	64	..	..	64	65	60	334	4	23	64	357	1
Godávari ..	1	..	49	..	..	49	50	40	105	6	34	46	139	4
Kistna ..	1	12	94	3	12	121	122	72	192	48	178	120	370	2
Nellore ..	47	2	28	..	5	35	82	24	97	35	130	59	227	23
Cuddapah ..	12	7	192	4	6	209	221	183	411	29	99	212	510	9
Kurnool ..	4	..	94	..	..	94	98	76	144	18	39	94	183	4
Bellary ..	4	..	29	..	23	52	56	26	55	24	93	50	148	6
Anantapur ..	1	3	72	6	2	83	84	57	212	24	85	81	297	3
Nilgiris ..	..	..	19	..	..	19	19	18	52	1	12	19	64	..
Total ..	78	24	763	13	48	848	926	635	1,849	225	798	860	2,647	66

Cases compounded under section 55 of the Madras Forest Act.

														Amount for which these cases were compounded.
														RS. A. P.
Ganjam ..	..	..	2	..	..	2	2	2	2	..	..	2	2	8 0 0
Vizagapatam..	..	..	5	..	..	5	5	5	35	..	..	5	35	2 0 0
Godávari ..	..	..	..	..	..	..	..	..	..	..	..	..	..	None.
Kistna ..	..	..	56	..	..	56	56	56	64	..	..	56	64	103 0 0
Nellore ..	..	..	14	..	..	14	14	14	..	..	..	14	..	98 0 0
Cuddapah ..	..	..	41	1	9	51	51	51	140	..	..	51	140	152 0 0
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..	..	..	None.
Bellary ..	..	..	..	..	1	1	1	1	30	..	..	1	30	15 0 0
Anantapur ..	..	..	14	2	1	17	17	17	43	..	..	17	43	104 0 0
Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	None.
Total ..	..	..	132	3	11	146	146	146	314	..	..	146	314	482 0 0

Annual Form No. 64.

Forest Department, Madras, Northern Circle.

Annual summary of revenue of the different districts, 1885-86.

Budget heads, receipts.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nílgiris.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government agency—												
(*a*) Timber	..	21,590	1	..	..	2,214	34,344	..	..	131	7,169	65,449
(*b*) Firewood and charcoal	..	..	..	5,436	..	54,353	8	..	1,264	4	18,252	79,317
(*c*) Bamboos	..	..	..	..	..	325	524	..	..	..	..	849
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	3,081	3,081
(*e*) Grass and other minor produce ..	..	117	..	..	..	4,883	409	5	26	170	926	6,536
II. Timber and other produce removed from the forests by consumers or purchasers—												
(*a*) Timber	..	460	433	32,473	4,736	2,571	17,288	41,717	425	905	1,213	1,02,221
(*b*) Firewood and charcoal	..	11,586	2,414	5,633	8,159	3,198	61,104	16,112	3,335	1,611	5,311	1,18,463
(*c*) Bamboos	..	3,156	979	7,929	1,025	4	5,458	10,317	452	1,222	1,839	32,381
(*d*) Grazing and fodder grass ..	..	..	..	1,161	30,999	55	296	1,514	2,201	14	209	36,449
(*e*) Other minor produce	..	442	60	358	10,352	2,131	42,089	1,965	11,126	10,582	236	79,341
III. Confiscated drift and waif wood	..	247	29	7,335	423	78	569	540	17	125	6	9,369
IV. Revenue from forests not managed by Government—												
V. Miscellaneous—												
(*a*) Fines and forfeitures	..	..	3	5	..	..	50	..	..	..	..	58
(*b*) Refunds	242	1,117	17	76	231	1,200	13	323	7	5	705	3,936
(*c*) Other sources	4	..	2	160	7,185	386	521	124	25	327	98	8,832
Total Receipts ..	246	38,715	3,938	60,566	63,110	71,398	1,62,673	72,617	18,878	15,096	39,045	5,46,282

(Signed) G. HOMFRAY,
Ag. Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1885-86.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nílgiris.	Total.
A—*Conservancy and Works.*	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government agency—												
(*a*) Timber	..	5,854	..	2	..	260	13,604	..	..	1	2,609	22,330
(*b*) Firewood and charcoal	..	116	..	2,162	..	28,098	1	..	921	6	11,859	43,163
(*c*) Bamboos	..	..	..	..	..	..	244	..	..	..	..	244
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	1,545	1,545
(*e*) Grass and other minor produce	..	249	..	..	27	1,947	255	..	34	205	888	3,605
II. Timber and other produce removed from the forests by consumers or purchasers	..	1,478	509	2,862	2,289	412	7,171	4,989	49	245	1,182	21,186
III. Confiscated, drift and waif wood	..	217	..	1,319	23	..	33	22	..	..	..	1,614
IV. Revenue from forests not managed by Government	..	220	..	..	..	..	..	21	..	..	..	241
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	8,333	..	3,500	11,833
VI. Live stock, stores, tools and plant—												
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	..	97	..	..	..	..	2	..	..	..	1,419	1,518
(*c*) Stores, tools and plant	72	51	119	7	1	14,323	147	5	2	151	380	15,258
VII. Communications and buildings—												
(*a*) Roads and bridges	..	261	..	..	..	..	1,010	..	..	79	1,141	2,491
(*b*) Buildings	..	868	..	97	190	106	2,062	2,778	460	2,010	394	8,965
(*c*) Other works	..	..	..	..	..	..	20	..	..	..	65	85
VIII. Demarcation, improvement and extension of forests—												
(*a*) Demarcation	..	1,789	36	26	2,047	87	2,475	1,504	656	506	3,934	13,060
(*b*) Compensation for land and rights	..	192	..	..	143	..	114	125	..	381	550	1,505
(*c*) Surveys and working plans	..	..	..	..	..	..	..	32	..	..	7	39
(*d*) Plantations	63	94	..	133	4,615	9,355	3,486	288	182	409	6,191	24,816
(*e*) Protection from fire	163	483	..	..	911	130	3,108	595	1,758	932	2,340	10,420
(*f*) Other works	14	58	..	..	1	261	502	..	439	..	967	2,242
IX. Miscellaneous—												
(*a*) Refunds	..	..	..	..	231	377	30	122	..	20	..	780
(*b*) Law charges	..	3	..	..	..	..	1	..	..	..	..	4
(*c*) Other charges	490	493	39	227	181	22	279	33	2	60	160	1,986
Total A—Conservancy and Works	802	12,523	703	6,835	10,659	55,378	34,544	10,514	12,826	5,005	39,131	1,88,930

(Signed) G. HOMFRAY,
Ag. Examiner of Forest Accounts.

Annual Form No. 64.

Forest Department, Madras, Northern Circle.

Annual summary of expenditure of the different districts, 1885-86.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
B.—"*Establishments.*"	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward, Total A. "Conservancy and Works"	802	12,523	703	6,835	10,659	55,378	34,544	10,514	12,836	5,005	39,131	1,88,930
I. Salaries—												
(*a*) Conservators	13,300	..	..	..	..	..	..	..	..	..	..	13,300
(*b*) Superior officers	11,230	5,539	1,989	3,500	4,400	8,850	12,118	12,618	5,244	3,939	10,684	80,111
(*c*) Subordinate forest and depôt establishments	2,618	3,695	2,490	3,407	5,120	6,543	10,041	5,374	3,962	2,637	5,447	51,334
(*d*) Office establishments	9,038	1,113	436	964	1,436	1,553	2,674	1,498	727	715	1,456	21,610
(*e*) Deputation and special allowances	654	..	..	..	98	..	..	..	..	..	..	752
II. Travelling allowances—												
(*a*) Conservators	3,812	..	..	..	..	..	..	..	..	..	..	3,812
(*b*) Superior officers	1,696	1,514	702	1,454	1,200	2,370	2,707	2,993	1,525	1,698	2,307	20,166
(*c*) Subordinate forest and depôt establishments	840	1,241	698	1,112	649	1,167	1,972	1,041	666	529	922	10,837
(*d*) Office establishments	961	180	80	193	387	291	343	406	69	312	65	3,287
III. Contingencies—												
(*a*) Stationery	23	17	..	1	49	36	..	..	19	..	..	145
(*b*) Carriage of tents and records ..	333	16	5	51	296	115	34	92	35	110	..	1,087
(*c*) Rents, rates and taxes	622	..	..	185	..	300	239	..	160	25	360	1,891
(*d*) Pay of police guards	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Official postage	478	69	47	116	192	284	424	239	115	132	96	2,192
(*f*) Sundries	1,008	88	25	125	133	311	255	138	76	60	144	2,363
Total B, "Establishments" ..	46,613	13,472	6,472	11,108	13,960	21,820	30,807	24,399	12,598	10,157	21,481	2,12,887
Grand Total of Expenditure ..	47,415	25,995	7,175	17,943	24,619	77,198	65,351	34,913	25,434	15,162	60,612	4,01,817

(Signed) G. HOMFRAY,
Ag. Examiner of Forest Accounts.

ANNUAL FORM No. 65.

Forest Department, Madras, Northern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1885-86.

District.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE.		Remarks
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator's office, Northern Circle ..	..	2,244 10 9	2,244 10 9	..	2,511 13 8	2,511 13 8	267 2 11	..	
Two-fifths of Examiner's office	..	1,541 1 8	1,541 1 8	..	1,572 0 11	1,572 0 11	30 15 3	..	
Forest Settlement office, Kurnool	..	..	..	..	..	..	..	..	
Do. Nilgiris	..	..	..	..	..	..	..	..	
Ganjam	..	15,975 12 11	15,975 12 11	2,122 12 6	14,906 1 9	17,028 14 3	1,053 1 4	..	
Vizagapatam	..	873 4 11	873 4 11	389 13 0	873 14 3	1,263 11 3	390 6 4	..	
Godavari	..	9,390 7 6	9,390 7 6	516 1 10	9,603 13 9	10,119 15 7	729 8 1	..	
Kistna	..	16,546 10 5	16,546 10 5	852 0 1	16,614 9 3	17,466 9 4	919 14 11	..	
Nellore	..	59,894 4 8	59,894 4 8	2,594 13 0	60,059 8 0	62,654 5 0	2,777 6 11	17 6 7	
Cuddapah	..	34,023 4 1	34,023 4 1	3,424 15 7	31,500 10 6	34,925 10 1	902 6 0	..	
Kurnool	..	13,887 11 7	13,887 11 7	463 1 0	14,300 15 3	14,764 0 3	876 4 8	..	
Bellary	121 4 3	5,221 10 5	5,342 14 8	121 4 3	5,459 10 3	5,580 14 6	237 15 10	..	
Anantapur	..	5,492 15 8	5,492 15 8	..	5,614 4 3	5,614 4 3	121 4 7	..	
Nilgiris	..	15,088 11 2	15,088 11 2	325 6 6	15,860 9 7	16,186 0 1	1,097 4 11	..	
Total ..	121 4 3	1,80,180 9 9	1,80,301 14 0	10,810 3 9	1,78,877 15 5	1,89,688 3 2	9,403 11 9	17 6 7	

(Signed) G. HOMFRAY,
Ag. Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Northern Circle.

Revenue received and outstandings on account of revenue during 1885-86.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.	Remarks.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Ganjam	Timber and other produce	279 0 2	40,350 6 7	40,629 6 9	38,714 8 2	1,914 14 7	
Vizagapatam	Do.	..	3,938 2 4	3,938 2 4	3,938 2 4	..	
Godavari	Do.	..	60,565 13 8	60,565 13 8	60,565 13 8	..	
Kistna	Do.	..	63,110 1 0	63,110 1 0	63,110 1 0	..	
Nellore	Do.	200 0 0	72,099 12 11	72,299 12 11	71,398 0 11	901 12 0	
Cuddapah	Do.	..	1,62,688 15 7	1,62,688 15 7	1,62,672 15 7	16 0 0	
Kurnool	Do.	..	72,616 15 11	72,616 15 11	72,616 15 11	..	
Bellary	Do.	..	18,880 1 9	18,880 1 9	18,877 13 9	2 4 0	
Anantapur	Do.	..	15,096 2 1	15,096 2 1	15,096 2 1	..	
Nilgiris	Do.	834 1 0	41,216 5 11	42,050 6 11	39,045 1 5	3,005 5 6	
Direction	Do.	..	246 7 3	246 7 3	246 7 3	..	
	Total ..	1,313 1 2	5,50,809 5 0	5,52,122 6 2	5,46,282 2 1	5,840 4 1	

(Signed) G. HOMFRAY,
Ag. Examiner of Forest Accounts.

Annual Form No. 67.

Forest Department, Madras, Northern Circle.

Financial results of the year 1885-86.

Districts.	Timber and other produce removed from the forests by Government Agency.		Other Revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjam	21,707	14,203	17,033	5,541	10,992	38,740	30,736
Vizagapatam	1	..	3,961	4,524	4,289	3,962	8,813
Godávari	5,436	6,691	55,155	9,171	6,822	60,591	22,684
Kistna	..	27	63,134	11,712	17,621	63,134	29,360
Nellore	61,774	58,649	9,649	7,420	17,423	71,423	83,492
Cuddapah	35,286	22,359	1,27,412	22,863	26,423	1,62,698	71,645
Kurnool	5	..	72,637	21,727	19,480	72,642	41,207
Bellary	1,290	3,373	17,612	10,859	14,390	18,902	28,622
Anantapur	305	2,333	14,815	6,551	9,466	15,120	18,350
Nílgiris	29,427	35,130	9,643	4,644	27,134	39,070	66,908
Total ..	1,55,231	1,42,765	3,91,051	1,05,012	1,54,040	5,46,282	4,01,817

Form No. 68.

Forest Department, Madras, Northern Circle.

Trees felled by Government Agency during the year 1885-86.

(Selection fellings.)

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
Ganjam	Kukuluba range	Sál	94	296	390	Converted into logs	287	287	103	
		Sajo	..	116	116	Do. do.	116	116	..	
		Dhau	..	59	59	Do. do.	51	51	8	
		Piasal	..	2	2	Do. do.	2	2	..	
		Satinwood	..	6	6	Do. do.	6	6	..	
		Miscellaneous	..	12	12	Do. do.	12	12	..	
	Mojagodo range	Sajo	..	3	3	Do. do.	3	3	..	
		Dhau	..	8	8	Do. do.	8	8	..	
		Ebony	..	4	4	Do. do.	4	4	..	
		Blackwood	..	1	1	Do. do.	1	1	..	
		Piasal	..	2	2	Do. do.	2	2	..	
		Cottonwood	..	255	255	....	255	255	..	
		Miscellaneous	..	30	30	....	30	30	..	
	Suradá	Sajo	..	62	62	....	62	62	..	
		Total, Ganjam ..	94	856	950	....	839	839	111	
Godávari	Wuddagudiem range ..	Nallamaddi	..	112	112	....	..	..	112	
		Sombi	..	21	21	....	..	..	21	
		Chiriman	..	24	24	....	..	..	24	
		Ippa	..	25	25	....	..	..	25	
		Chimpangi	..	15	15	....	..	..	15	
		Bandaru	..	1	1	....	..	..	1	
		Konda Tangedu	..	2	2	....	..	..	2	
		Total, Godávari ..	..	200	200	....	..	..	200	
Nellore	Plantation range	Casuarina	..	215	215	Converted into piles and fuel.	215	215	..	
	Varany plantation									
	Iskapalle	Do.	..	5	5	Do. do. ..	5	5	..	
	Kávali range	Do.	..	1,541	1,541	Do. do. ..	1,541	1,541	..	
	Ramapatam plantation ..									
	Udayagiri range ..	Miscellaneous	36	..	36	Do. do. ..	..	..	36	
		Total, Nellore ..	36	1,761	1,797	....	1,761	1,761	36	

Trees felled by Government Agency during the year 1885-86—*continued.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
Cuddapah ..	Cuddapah range .. .. / Kamalápuram plantation.	Babul	..	1	1	Converted into 2 logs and 3 tons firewood.	1	1	..	
	Ráyachóti range .. .. / Gadikota forest	Red sanders	..	2	2	Converted into 2 posts and used departmentally.	2	2	..	
		Total, Cuddapah ..	..	3	3	....	3	3	..	
Anantapur ..	Khojjepalle reserve ..	Palmyra	..	22	22	Converted into 50 demarcation posts.	20	22	..	Used departmentally.
						Sold by auction	2			
	Do. do. ..	Babul	..	145	145	Do. do.	145	145	..	
	Anantapur do. ..	Palmyra	..	14	14	Converted into 35 demarcation posts.	14	14	..	Used departmentally.
	Yellanoor tope	Babul	..	84	84	Logged	84	84	..	
	Muchukota forest ..	Neem	..	20	20	Sold by auction	20	20	..	
		Yepi	..	380	380	Do. do.	230	380	..	
						Used departmentally for fire patrols' huts	150			
		Total, Anantapur ..	..	665	665	....	665	665	..	
Nilgiris	Benne reserved forests ..	Teak	..	102	102	Converted into logs	102	102	..	
		Blackwood	..	23	23	....	23	23	..	
	Mudumalai leased forests ..	Teak	..	183	183	....	183	183	..	
	Tippacadu block	Blackwood	..	60	60	....	60	60	..	
		Vengai	..	118	118	....	118	118	..	
		Mutti	..	35	35	....	35	35	..	
	Governor's shola	Eucalyptus	..	2,549	2,549	Converted into fuel	2,549	2,549	..	
	Cairn hill	Do.	..	3,275	3,275	....	3,275	3,275	..	
		Miscellaneous	..	1,085	1,085	....	1,085	1,085	..	
	Aramby	Eucalyptus	..	2,234	2,234	....	2,234	2,234	..	
	Dodabetta reserved forests..	Miscellaneous	..	28	28	....	28	28	..	
	Lovedale W. reserved forests.	Do. saplings ..	..	12	12	Converted into poles	12	12	..	
	Coonoor peak	Eucalyptus	..	1,357	1,357	Do. do.	38	..	..	
						Do. into fuel	1,319	1,357	..	
	Ghât reserve	Miscellaneous	..	91	91	Do. do.	91	91	..	
	Bandy shola	Acacia	..	79	79	Do. do.	79	79	..	
	Kullar reserved forests ..	Miscellaneous	..	375	375	Do. into poles	375	375	..	
		Total, Nilgiris ..	..	11,606	11,606	....	11,606	11,606	..	
		Grand Total ..	130	15,091	15,221	....	14,874	14,874	347	

Trees felled by Government Agency during the year 1885-86—*continued.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees						Remarks.
			On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year.		Balance at end of the year.	
						How disposed of.	Number.	Total.	
	Abstract	Teak	..	285	285	....	285	285	..	
		Sál	94	296	390	....	287	287	103	
		Blackwood	..	84	84	....	84	84	..	
		Satinwood	..	6	6	....	6	6	..	
		Ebony..	..	4	4	....	4	4	..	
		Cottonwood	..	255	255	....	255	255	..	
		Red sanders	..	2	2	....	2	2	..	
		Ironwood	..	2	2	....	..	..	2	
		Margosa	..	20	20	....	20	20	..	
		Babul	..	230	230	....	230	230	..	
		Yegi	..	122	122	....	122	122	..	
		Yepi	..	380	380	....	380	380	..	
		Chiriman	..	91	91	....	59	59	32	
		Maddi	..	328	328	....	216	216	112	
		Palmyra	..	36	36	....	36	36	..	
		Eucalyptus	..	9,415	9,415	....	9,415	9,415	..	
		Acacia..	..	79	79	....	79	79	..	
		Casuarina	..	1,761	1,761	....	1,761	1,761	..	
		Miscellaneous	36	1,695	1,731	....	1,633	1,633	98	
		Total ..	130	15,091	15,221	....	14,874	14,874	347	

Annual Form No. 69.

Forest Department, Madras, Northern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam.	Mojagodo ..	Sál logs ..	5,523	66,963	..	..	5,523	66,963	Sold	3,297	36,138	2,226	30,825	
		Blackwood logs.	..	..	6	75	6	75	Taken to depôt	5	63	..	..	
									Sold	1	12			
		Ebony	..	..	6	107	6	107	Taken to depôt	6	107	..	..	
		Piasál	..	..	16	273	16	273	Do. ..	16	273	..	..	
		Sajo	..	..	11	177	11	177	Do. ..	11	177	..	..	
		Dhau	..	..	9	187	9	187	Do. ..	9	187	..	..	
		Cotton tree ..	..	..	260	2,926	260	2,926	Do. ..	260	2,926	..	..	
		Miscellaneous ..	..	..	31	382	31	382	Do. ..	31	382	..	..	
	Kukuluba ..	Sál	..	..	2,648	35,145	2,648	35,145	Sold	446	7,687	159	3,941	
									Depôt ..	2,043	23,517			
		Piasál	..	..	6	91	6	91	Do. ..	5	80	1	11	
		Sajo	..	..	138	2,050	138	2,050	Sold	26	356	36	523	
									Taken to depôt	76	1,171			
		Dhau	..	..	56	956	56	956	Sold	7	102	43	724	
									Taken to depôt	6	130			
		Satinwood ..	..	..	7	94	7	94	Do. ..	7	94	..	..	
		Miscellaneous ..	..	..	45	557	45	557	Sold	2	38	11	179	
									Taken to depôt	32	340			
	Suradá ..	Sál logs ..	..	..	63	477	63	477	Do. ..	63	477	..	..	8 Poles.
		Piasál ,, ..	..	..	1	18	1	18	Do. ..	1	18	..	..	
		Sajo ,, ..	..	..	74	1,348	74	1,348	Do. ..	58	994	15	338	For specimens.
									Used departmentally.	1	16			
	Berhampore.	Sál ,, ..	..	..	2	24	2	24	Taken to depôt	2	24	..	..	
		Piasál ,, ..	..	..	3	31	3	31	Do. ..	3	31	..	..	
		Total ..	5,523	66,963	3,382	44,918	8,905	111,881	..	6,414	75,340	2,491	36,541	
Godávari.	Rékapalle ..	Firewood ..	Tons. 465	32,454	Tons. 1,256	101,736	Tons. 1,721	134,190	Sold to Public Works Department.	Tons. 1,279	103,589	Tons. 442	30,601	
		Total ..	Tons. 465	32,454	Tons. 1,256	101,736	Tons. 1,721	134,190	..	Tons. 1,279	103,589	Tons. 442	30,601	
	Godávari river.	Teak	..	..	2,396	12,751	2,396	12,751	Taken to depôt	1,553	9,907	..	..	Drift timber.
									Sold	843	2,844			
		Miscellaneous ..	..	..	272	3,154	272	3,154	Taken to depôt	205	2,210	..	..	
									Sold	67	944			
		Total ..	..	..	2,668	15,905	2,668	15,905	..	2,668	15,905	..	..	
	Do. ..	Bamboos ..	..	..	5,564	..	5,564	..	Sold	5,564	..	..	..	
		Total ..	..	..	5,564	..	5,564	..	..	5,564	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued*.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet	Number.	Cubic feet.	
Nellore.	Sriharikóta..	Narudu poles ..	438	1,314	322	161	760	1,475	Madras depôt.	760	1,475	..	..	
		Miscellaneous poles.	..	..	3,878	1,939	3,878	1,939	Do.	3,878	1,939	..	..	
		Stakes and pegs.	..	..	23,643	..	23,643	..	Sold to Salt department.	23,643	..	..	..	
	Rápúr ..	Sleepers and posts.	108	167	..	..	108	167	Sold	108	167	..	..	
	Udayagiri ..	Miscellaneous sleepers.	339	565	..	..	339	565	..	..	..	339	565	
	Plantations (North).	Casuarina piece.	..	..	2,584	2,347	2,584	2,347	Sold	2,584	2,347	..	..	
	Plantations (South).	Do. piles.	..	..	889	1,538	889	1,538	Do.	881	1,521	..	..	
									Madras depôt.	8	17			
		Total, Timber..	885	2,046	31,316	5,985	32,201	8,031	..	31,862	7,466	339	565	
	Sriharikóta..	Junglewood ..	590,585	Tons. 282	1,628,194	Tons.1,628	2,218,779	Ts. 2,221	Madras depôt.	2,218,779	Ts. 2,221	..	..	
						,, *311								
			Bdls.25,279	,, 111	25,534	,, 1,922	50,813	,, 2,033	Do.	50,813	,, 2,033	..	..	
									Do.	..	,, 16			
	Plantations (North).	Casuarina ..	..	,, 11	..	,, 247	..	258	Transferred south plantations.	..	,, 6	..	..	
									Sold	..	,, 236			
	Plantations (South).	Do. ..	..	,, 62	..	,, 2,700	..	,, 2,762	Madras depôt.	..	,, 2,508	..	79	
									Sold	..	,, 175			
		Total, Fuel..	..	Tons. 466	..	Tons.6,808	..	Ts. 7,274	..	..	Ts. 7,195	..	79	
	Sriharikót ..	Nux-vomica ..	Mds. 840	..	Mds. 810	..	Mds. 1,650	..	Madras depôt.	Mds. 1,650	..	..	..	
		Cheyroot ..	,, 353	..	,, 436	..	,, 789	..	Do.	,, 502	..	Mds. 287	..	
		Suratichekka ..	,, 6	..	,, 87	..	,, 93	..	..	..	..	,, 93	..	
		Soapnuts ..	..	..	,, 288	..	,, 288	..	Madras depôt.	,, 288	..	..	..	
		Orchella ..	,, 10	..	..	..	,, 10	..	..	..	..	,, 10	..	
		Honey	..	..	,, 2	..	,, 2	..	..	..	..	,, 2	..	
		Tangedu ..	,, 523	..	..	..	,, 523	..	Madras depôt.	,, 460	..	,, 63	..	
		Rattans ..	Bdls. 67	..	Bdls. 215	..	Bdls. 282	..	Do.	Bdls. 212	..	Bdls. 65	..	
									Used departmentally.	,, 5				
	Plantations.	Cashew-nuts ..	..	..	Mds. 85	..	Mds. 85	..	Sold	Mds. 85	..	..	..	Tons 19=cwt. 19 =lb. $\frac{19\times112}{25}$ = mds. 85.
		Total, Minor produce..	Mds. 1,732	..	Mds. 1,708	..	Mds. 3,440	..	..	Mds. 2,985	..	Mds. 455	..	
			Bdls. 67=	..	Bdls. 215=	..	Bdls. 282=	..	..	Bdls. 217=	..	Bdls. 65=	..	
			Mds. 34	..	Mds. 107	..	Mds. 141	..	..	Mds. 108	..	Mds. 33	..	

* Brought on stock.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Cuddapah.	Kodúr ..	Red sanders, roots, &c.	..	..	Tons. 2,162	..	Tons. 2,162	..	Taken to sale depôt.	Tons. 2,162	..	..	..	
		Total, Timber..	..	..	Tons. 2,162	..	Tons. 2,162	..	..	Tons. 2,162	..	..	..	
	Kodúr ..	Bamboos ..	..	..	1,368	..	1,368	..	Sale depôt	472	..	..	..	
									Used departmentally.	276	..			
									Sold	620				
		Total, Bamboos.	..	..	1,368	..	1,368	..	..	1,368	..	..	..	
	Kodúr ..	Thatch grass ..	..	..	Ton. ½	..	Ton. ½	..	Depôt ..	Ton. ½	..	..	..	= 45 Mds. of 25 lb.
	Madanapalle	Sheakoy ..	..	..	Mds. 54	..	Mds. 54	..	Do. ..	Mds. 54	..	..	..	
		Gallnuts B ..	..	..	,, 11	..	11	..	Do. ..	,, 11	..	..	..	
		Mangoes ..	..	..	825	..	825	..	Do.	825	..	..	..	
		Pomegranates..	..	..	45	..	45	..	Do.	45	..	..	..	
		Total, Minor produce..	..	..	Mds. 110	..	Mds. 110	..	..	Mds. 110	..	..	..	75 fruits per maund estimate.
			..	..	870	..	,, 870	..	..	870	..	..	..	
Kurnool.	Nandikótkur	Gallnuts B ..	Mds. 500	..	..	..	Mds. 500	..	..	..	..	Mds. 500	..	B = Beleric.
	Sirvel ..	Do. B ..	,, 300	..	..	..	,, 300	..	..	..	..	,, 300	..	
	Velgode ..	Do. B ..	,, 230	..	..	..	,, 230	..	..	..	..	,, 230	..	
	Nandyál ..	Do. B ..	,, 500	..	..	..	,, 500	..	..	..	..	,, 500	..	
		Total, Minor produce.	1,530	..	..	..	Mds. 1,530	..	..	..	..	Mds. 1,530	..	
Bellary.	Sandúr ..	Teak poles ..	4	..	..	..	4	..	..	..	..	4	..	12 cubic feet.
		Palmyra rafters.	..	..	225	..	225	..	Sold	225	..	..	..	
		Total, Timber..	4	..	225	..	229	..	..	225	..	4	..	Estimate 225 cubic feet.
	Sandúr ..	Firewood ..	Tons. 896	65,615	Tons. 1,011	70,770	Tons. 1,907	136,385	Sold	200	14,000	1,707	122,385	
		Do. ..	,, 94	5,640	,, 247	17,290	,, 341	22,930	Do.	15	1,050	326	21,880	Creepers.
		Total, Fuel..	Tons. 990	71,255	Tons. 1,258	88,060	Tons. 2,248	159,315	..	215	15,050	2,033	144,265	
		Gallnuts B ..	..	..	Mds. 77	..	Mds. 77	..	Bellary depôt.	Mds. 77	..	..	..	B = Beleric.
		Do. C ..	..	..	,, 56	..	,, 56	..	Sold	,, 56	..	..	..	C = Chebulic.
		Tamarind ..	..	..	,, 43	..	,, 43	..	..	,, ..	..	Mds. 43	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range Forest or working circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Bellary—*cont.*	Sandûr—*cont.*	Sheakey ..	Mds. 6	..	..	..	Mds. 6	..	..	..	..	Mds. 6	..	17 bottles = 1 mavnd estimate.
		Kamila.. ..	lb. 5	..	..	..	lbs. 5	..	..	..	..	lbs. 5	..	
		Honey	Bottles. 2	..	Bottles. 17	..	Bottles. 19	..	Sold ..	Bottles. 9	..	Bottles. 10	..	
		Wax	..	..	lb. 2	..	lb. 2	..	..	..	..	lb. 2	..	
		Total, Minor produce..	Mds. 6	..	Mds. 177	..	Mds. 183	..	..	Mds. 133	..	Mds. 50	..	
Anantapur.	Penukonda ..	Miscellaneous poles.	* ..	* ..	* ..	3	..	3	Sold ..	..	3	..	..	
	Muchukota ..	Babul pieces ..	..	..	84	420	84	420	Do.	84	420	..	..	
		Total, Timber ..	..	..	84	423	84	423	..	84	423	..	..	
	Muchukota ..	Brushwood ..	..	..	Tons 9	..	Tons 9	..	Sold ..	Tons 9	..	..	..	
		Total, Fuel ..	..	..	Tons 9	..	Tons 9	..	..	Tons 9	..	..	..	
	Penukonda..	Honey	* ..	* ..	Mds. 35	..	Mds. 35	..	Bukkapatnam depôt.	Mds. 35	..	..	..	
		Wax	..	..	Seers 68 or Mds. 1¾	..	Seers 68 or Mds. 1¾	..	Do. ..	Seers 68 or Mds. 1¾	..	..	..	
		Tamarind ..	..	..	,, 5	..	Mds. 5	..	Do. ..	Mds. 5	..	..	..	
		Gallnuts C. ..	..	..	,, 29	..	,, 29	..	Do. ..	,, 29	..	..	..	
		Do. B. ..	..	..	,, 2	..	,, 2	..	Do. ..	,, 2	..	..	..	
		Kanuga seeds..	..	..	Md. 1	..	Md. 1	..	Do. ..	Md. 1	..	..	..	
		Yepi fibre ..	Mds. 5	..	..	..	Mds. 5	..	Do. ..	Mds. 5	..	..	..	
	Hindupur ..	Tamarind ..	,, 116	..	..	..	,, 116	..	Do. ..	,, 116	..	..	..	
		Honey	..	..	Mds. 6	..	,, 6	..	Sold	,, 6	..	..	..	
		Wax	..	..	Md. ¼	..	Md. ¼	..	Do.	Md. ¼	..	..	..	
		Gallnuts C. ..	..	..	Mds. 25	..	Mds. 25	..	Do.	Mds. 25	..	..	..	
		Kanuga seeds..	..	..	,, 18	..	,, 18	..	Bukkapatnam depôt.	,, 18	..	..	..	
	Gooty ..	Babul pods ..	..	..	Tons 7½ or Mds. 672	..	Tons 7½ or Mds. 672	..	Sent to Agricultural department.	Tons 4½	..	..	..	
		..	..	..	..	..	..	..	Gooty depôt.	,, 3				
		Do. bark ..	..	..	,, 60	..	,, 60	..	Sent to Agricultural department.	Mds. 60	..	..	..	
	Muchukota ..	Do. ..	..	..	,, 855	..	,, 855	..	Do. ..	,, 855	..	..	..	
		Total, Minor produce ..	Mds. 121	..	Mds. 1,710	..	Mds. 1,830	..	..	Mds. 1,830	..	..	..	

* * The "balance at end of year" shown in Form 69 for 1884-85 under minor produce having subsequently been reported to have been taken to depôt, it now appears in Form No. 70 as "on hand, 1st April 1885."

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris.	Benné ..	Teak	33	551	102	3,523	135	4,074	Sold	92	2,424	43	1,650	
		Blackwood ..	35	1,334	23	864	58	2,198	..	55	1,968	3	230	
	Tippecadu block.	Teak	..	..	183	4,574	183	4,574	..	182	4,561	1	13	
		Blackwood ..	..	..	60	3,007	60	3,007	..	60	3,007	..	..	
		Vengai ..	8	500	118	3,665	126	4,165	..	118	3,665	8	500	
		Mutti	..	..	35	1,183	35	1,183		..	..	35	1,183	
	Lovedale ..	Miscellaneous saplings.	..	..	12	4	12	4	Sold	12	4	..	..	Estimated 4 cubic feet.
	Coonoor peak.	Bluegum drag poles.	..	..	8	8	8	8	Coonoor depôt.	8	8	..	..	Estimated each 1 cubic foot.
	Moyar ..	Miscellaneous poles.	..	..	642	..	642	..	Masnacoil ..	642	..	..	..	Branch wood.
	Kullár ..	Miscellaneous poles.	..	..	4,085	2,042	4,085	2,042	Kullár ..	4,085	2,042	..	..	Saplings.
		Total, Timber..	76	2,385	5,268	18,870	5,344	21,255	..	5,254	17,679	90	3,576	
	Governor's shola.	Eucalyptus ..	Tons. 34	..	Tons. 1,246	..	Tons. 1,280	..	Ootacamund depôt.	Tons. 185	..	Tons. 259	..	
									Sold ..	,, 836	..			
	Cairn hill ..	Do. ..	..	..	,, 552	..	,, 552	..	Ootacamund depôt.	,, 96	..	,, 11	..	
									Sold ..	,, 445	..			
		Shola wood ..	..	..	,, 333	..	,, 333	..	Ootacamund depôt.	,, 34	..	,, 62	..	
									Sold ..	,, 237	..			
	Aramby ..	Eucalyptus ..	..	..	,, 1,014	..	,, 1,014	..	Ootacamund depôt.	,, 567	..	..	..	
									Sold ..	,, 447	..			
		Shola wood ..	..	..	,, 67	..	,, 67	..	Ootacamund depôt.	,, 1	..	,, 39	..	
									Sold ..	,, 27	..			
	Dodabetta.	Do. ..	..	..	,, 77	..	,, 77	..	Ootacamund depôt.	,, 6	..	..	..	
									Sold ..	,, 71	..			
	Woodcock shola.	Do. ..	..	..	,, 68	..	,, 68	..	..	..	..	,, 68	..	
	Pykara ..	Do. ..	..	..	,, 20	..	,, 20	..	..	..	..	,, 20	..	
	Coonoor peak.	Eucalyptus ..	Tons. 490	..	,, 702	..	,, 1,192	..	Coonoor depôt.	,, 147	..	,, 417	..	
									Wellington depôt.	,, 58	..			
									Sold ..	,, 570	..			
	Ghât reserve.	Shola wood ..	..	..	,, 124	..	,, 124	..	Do. ..	,, 104	..	..	..	
									Coonoor depôt.	,, 20	..			

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—(*Continued*).	Bandy shola..	Acacia	..	..	Tons. 56	..	Tons. 56	..	Coonoor depôt.	Tons. 46	..	Tons. 2	..	
	Kullár ..	Miscellaneous firewood.	..	..	,, 148	..	,, 148	..	Sold	,, 8	..	,, 148	..	
		Total, Fuel ..	Tons. 524	..	Tons. 4,407	..	Tons. 4,931	..	..	Tons. 3,839	..	Tons. 1,092	..	
	Sigúr ..	Sandal roots and chips.	Mds. 125	..	Mds. 910	..	Mds. 1,035	..	Sold	Mds. 910	..	Mds. 125	..	
		Total, Sandal ..	Mds. 125	..	Mds. 910	..	Mds. 1,035	..	..	Mds. 910	..	Mds. 125	..	
	Kullár ..	Gallnuts C ..	..	..	Mds. 118	..	Mds. 118	..	Depôt ..	Mds. 118	..	..	..	
	Melúr ..	Do. C ..	..	..	,, 260	..	,, 260	..	Do. ..	,, 260	..	..	..	
	Sigúr ..	Do. C ..	..	..	,, 700	..	,, 700	..	Sold	,, 700	..	..	..	
	Kótagiri ..	Do. C ..	..	..	,, 304	..	,, 304	..	Do.	,, 304	..	..	..	
	All ranges..	Sheakoy ..	..	..	,, 128½	..	,, 128½	..	Do.	,, 23	..	..	..	
									Kullár depôt..	,, 105½	..			
		Tamarind ..	..	..	,, 6	..	,, 6	..	Do. ..	,, 1	..	..	..	
									Sold	,, 5	..			
		Soapnuts ..	..	..	,, 1	..	,, 1	..	Do.	,, 1	..	..	..	
		Honey	..	..	Btls. 88	..	Btls. 88	..	Do.	Btls. 82½	..	Btls. 5½	..	1 Maund = 12 bottles estimate
		Wax	..	..	Mds. 5	..	Mds. 5	..	Do.	Mds. 5	..	..	..	
		Horns	..	..	,, 4½	..	,, 4½	..	Do.	,, 4½	..	..	..	
		Blue gum seeds.	..	..	lb. 1¼	..	lb. 1¼	..	Depôt ..	lb. 1¼	..	..	..	
		Total, Minor produce.	..	..	Mds. 1,534	..	Mds. 1,534	..	..	Mds. 1,533½	..	Mds. ½	..	
							ABSTRACT.							
		Teak logs and poles.	37	551	285	8,097	322	8,648	..	254	6,686	68	1,962	
		Sál logs ..	5,523	66,963	2,739	36,059	8,262	103,022	..	5,876	68,245	2,386	34,777	
		Redsanders roots.	..	..	Tons. 2,162	..	Tons. 2,162	..	..	Tons. 2,162	..	..	..	
		Sandalwood ..	Mds. 125	..	Mds. 910	..	Mds. 1,035	..	..	Mds. 910	..	Mds. 125	..	
		Sleepers and pieces.	447	732	3,473	3,885	3,920	4,617	..	3,581	4,052	339	565	
		Miscellaneous wood, logs and poles.	481	3,148	33,694	19,681	34,175	22,829	..	34,024	19,152	151	3,677	
		Fuel	Tons. 2,445	..	Tons. 13,738	..	Tons. 16,183	..	..	Tons. 12,537	..	Tons. 3,646	..	
		Bamboos ..	..	..	1,368	..	1,368	..	..	1,368	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
		Nux-vomica ..	Mds. 840	..	Mds. 810	..	Mds. 1,660	..	..	Mds. 1,650	..	..	..	Strychnos nux-vomica.
		Cheyroot ..	,, 353	..	,, 436	..	,, 789	..	..	,, 502	..	Mds. 287	..	Oldenlandia umbellata.
		Suratichekka ..	,, 6	..	,, 87	..	,, 93	..	..	..	..	,, 93	..	Ventilago maderaspatana.
		Soap-nuts ..	..	..	,, 289	..	,, 289	..	..	,, 289	..	..	..	Sapindus emarginatus.
		Orchella ..	,, 10	..	..	..	,, 10	..	..	..	..	,, 10	..	Roccella montaignei.
		Tangedu ..	,, 523	..	..	..	,, 523	..	..	,, 460	..	,, 63	..	Cassia auriculata.
		Honey	..	..	,, 49	..	,, 49	..	..	,, 48	..	,, 1	..	
		Wax	..	..	,, 7	..	,, 7	..	..	,, 7	..	..	..	
		Gallnuts B ..	,, 1,530	..	,, 90	..	,, 1,620	..	..	,, 90	..	,, 1,530	..	Terminalia belerica.
		Do. C ..	..	..	,, 1,492	..	,, 1,492	..	..	,, 1,492	..	..	..	Terminalia chebula.
		Tamarind ..	,, 116	..	,, 54	..	,, 170	..	..	,, 127	..	,, 43	..	Tamarindus indica.
		Sheakoy ..	,, 6	..	,, 182½	..	,, 188½	..	..	,, 182½	..	,, 6	..	Acacia concinna.
		Babul { Pods ..	..	..	,, 672	..	,, 672	..	..	,, 672	..	..	..	Do. arabica.
		Babul { Bark .	..	..	,, 915	..	,, 915	..	..	,, 915	..	..	..	
		Cashew-nuts ..	..	..	,, 85	..	,, 85	..	..	,, 85	..	..	..	Anacardium occidentale.
		Horns	..	..	,, 4½	..	,, 4½	..	..	,, 4½	..	..	..	
		Kamila.. ..	,, ¼	..	..	..	,, ¼	..	..	..	..	,, ¼	..	Mallotus philippinensis.
		Yepi fibre ..	,, 5	..	..	..	,, 5	..	..	,, 5	..	..	..	Hardwickia binata.
		Kanuga seeds ..	..	..	,, 19	..	,, 19	..	..	,, 19	..	..	..	
		Rattans ..	Bdls. 67	..	Bdls. 215	..	Bdls. 282	..	..	Bdls. 217	..	Bdls. 65	..	Pongamia glabra.
		Thatch grass ..	..	..	Ton. ½	..	Ton. ½	..	..	Ton. ½	..	..	..	Calamus Roxburghii.
		Fruits	..	..	No. 870	..	No. 870	..	..	No. 870	..	..	..	
		Blue gum seeds.	..	..	lb. 1½	..	lb. 1½	..	..	lb. 1½	..	..	..	

Annual Form No. 70.

Forest Department, Northern Division.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86.

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	
Ganjam.	Russell-kondah.	Sál logs	519	5,854	Forests ..	2,154	24,236	2,673	30,090	Cut sleepers	755	7,915	3	7	
										Sold	1,845	18,446			
										Gopálpur depôt ..	70	1,325			
										Loss on remeasurement.	..	2,397			
		,, b.g. sleepers ..	..	..	Conversion ..	351	1,219	351	1,219	Sold	351	1,219	..	..	
		,, m.g. ,, ..	14	31	Do. ..	818	1,791	832	1,822	Do.	832	1,822	..	..	
		,, n.g. ,, ..	480	640	Do. ..	592	796	1,072	1,436	Do.	1,072	1,436	..	..	
		,, slabs, &c. ..	1,143	..	Do. ..	4,741	..	5,884	..	Do.	5,832	..	52	..	Slabs.
		Piasál logs ..	..	..	Forests ..	20	341	21	353	Do.	15	286	1	4	
					Found in depôt.	1	12			Used departmentally..	5	63			
		Blackwood ..	..	..	Forests ..	5	63	5	63	Do. ..	1	15	4	48	
		Ebony ,, ..	..	..	Do. ..	6	107	6	107	Do. ..	2	35			
										Sold	4	72	..	..	
		Satin ,, ..	1	16	Do. ..	7	94	8	110	Gopálpur depôt ..	6	88			
										Used departmentally..	2	22	..	..	
		Sajo ,, ..	..	..	Do. ..	87	1,361	87	1,361	Gopálpur depôt ..	9	162			
										Sold	74	1,161	4	35	
										Used departmentally..	..	3			
		Dhau ,, ..	..	..	Forests ..	15	817	16	321	Gopálpur depôt ..	8	176			
					Found in depôt.	1	4			Sold	8	135	..	..	
										Used departmentally..	..	6			
										Loss on remeasurement.	..	4			
		Cotton tree ..	..	..	Do. ..	260	2,926	260	2,933	Gopálpur depôt ..	100	761	1	26	
					Remeasurement.	..	7			Sold	159	2,146			
		Miscellaneous trees.	3	28	Forests ..	63	722	79	812	Do.	64	654	2	10	
					Remeasurement.	13	62			Used departmentally..	13	148			
		Total, timber ..	2,160	6,569	....	9,134	34,058	11,294	40,627	....	11,227	40,497	67	130	
	Suradá ..	Sál logs	60	743	Confiscated ..	55	477	115	1,221	Sold	115	1,221	..	..	
					Remeasurement.	..	1								
		,, poles	80	..	Forests ..	8	..	88	..	Do.	46	..	..	..	
										Used departmentally..	42				
		,, b.g. sleepers ..	..	..	Found	2	7	2	7	Do. ..	..	..	2	7	
		Piasál logs ..	12	97	Forest ..	1	18	13	116	Sold	13	116	..	..	
					Remeasurement.	..	1								
		Blackwood logs ..	2	15	Do. ..	..	..	2	15	Do.	..	..	2	15	
		Sajo logs ..	..	..	Forests ..	26	484	58	994	Do.	32	510	26	484	
					Cut in depôt ..	32	510								
		Miscellaneous logs.	9	61	Do. ..	..	..	9	61	Do.	7	49	2	12	
		,, poles..	15	..	Do. ..	..	..	15	..	Do.	4	..	..	..	
										Used departmentally..	11				
		Total ..	178	916	....	124	1,498	302	2,414	....	270	1,896	32	518	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	
Ganjam—*continued.*	Berhampore.	Sál logs	35	607	Forest ..	2	24	37	631	Sold	35	607	2	24	
		Blackwood ..	2	37	Do. ..	..	..	2	37	Used departmentally..	1	23	..	..	
										Sold	1	14			
		Piasál	..	..	Do. ..	3	31	3	31	Do.	3	31	..	..	
		Total ..	37	644	....	5	55	42	699	....	40	675	2	24	
	Gopálpur..	Sál logs	23	514	Remeasurement depôt.	70	1,325	93	1,839	Sold	69	1,250	..	..	
										Madras	24	589			
		Dhau logs ..	..	..	Do. ..	8	176	8	176	Do.	8	176	..	..	
		Sajo ,, ...	..	..	Do. ..	9	163	9	163	Do.	8	151	..	..	
										Sold	1	12			
		Satinwood logs ..	..	..	Do. ..	6	88	6	88	Madras	6	86	..	..	
										Remeasurement ..	..	2			
		Cotton ,, ,, ..	..	..	Do. ..	100	* 757	100	757	Sold	100	* 757	..	..	* Dryage 4.
		Total ..	23	514	....	193	2,509	216	3,023	....	216	3,023	..	..	
	Madras ..	Sál logs	..	..	Gopálpur ..	24	589	24	589	Sold	20	478	4	71	
										Remeasurement ..	..	40			
		Dhau logs ..	..	..	Do. ..	8	176	8	176	Do. ..	..	..	8	176	
		Sajo ,, ...	..	..	Do. ..	8	151	8	151	Do. ..	..	..	8	151	
		Satinwood logs ..	..	..	Do. ..	6	86	6	86	Do. ..	..	..	6	86	
		Total ..	..	..	....	46	1,002	46	1,002	....	20	518	26	484	
Godávari.	Rajahmundry.	Teak	..	..	Wudagudem ..	1,125	8,077	1,125	8,077	Sold	1,125	8,077	..	..	Drift wood.
		Do.	..	..	Rajahmundry ..	428	1,830	428	1,830	Do.	428	1,830	..	..	
		Miscellaneous ..	..	..	Do. ..	205	2,210	205	2,210	Do.	205	2,210	..	..	
		Total, drift wood..	..	..	....	1,758	12,117	1,758	12,117	....	1,758	12,117	..	..	
Nellore.	Madras ..	Narudu poles ..	562	100	Sríharikót ..	760	1,475	1,322	1,575	Sold	491	734	830	841	
										Short delivery ..	1				
		Miscellaneous ,, ..	..	..	Do. ..	3,878	1,939	3,878	1,939	Used departmentally..	3,878	1,939	..	..	
		Casuarina ,, ..	..	..	Casuarina plantations.	8	17	8	17	Do. ..	6	15	1	2	
										Sold	1				
	Gúdúr ..	Sleepers and posts.	315	525	....	..	..	315	525	Do.	315	525	..	..	
		Total, timber ..	877	625	....	4,646	3,431	5,523	4,056	....	4,692	3,213	831	843	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic Feet.	Whence received.	No. or Quantity.	Cubic Feet.	No. or Quantity.	Cubic Feet.	How disposed of.	No. or Quantity.	Cubic Feet.	No. or Quantity.	Cubic Feet.	
Nellore—*continued.*		Junglewood ..	220,630	Tons 478	..	2,218,779	Tons2,221	2,439,409	2,699	Sold	2,399,121	Tons2,654	40,288 6,556	45 377	Excess found in stock.
		Do. ..	Bdls. 986	30	..	Bs. 50,813	2,033	Bs. 51,799	2,063	Do.	42,136	,, 1,686	9,663		
		Casuarina.. ..	..	Tons 118	Plantations ..	..	Tons2,544	..	Tons 2,662	Do. .. .. .. Short delivery and dryage.	.. ..	,, 2,387 ,, 48	..	.. Tons 227	
		Total, fuel ..	..	Tons 626	..	..	Tons6,798	..	Tons7,424	..	Tons6,775	..	..	Tons 649	
	Madras ..	Nux vomica ..	..	..	.. Excess on issue..	Mds.1,650 124	..	Mds.1,774	..	Sold	Mds.1,774	..	..	..	
		Cheyroot	..	..	..	,, 502	..	,, 502	..	Do. .. .. .. Dryage..	,, 278 ,, 4	..	220	..	
		Soap-nuts.. ..	..	..	..	,, 288	..	,, 288	..	Sold .. .. .. Short delivery.. ..	,, 214 ,, 74	..	..	..	
		Tangedu bark ..	Mds. 475	..	..	,, 460	..	,, 935	..	Sold .. .. .. Dryage.. .. .. Short delivery.. ..	,, 901 ,, 24 ,, 10	..	..	..	
		Rattans	..	..	..	Bdls. 212	..	Bdls. 212	..	Sold	Bdls. 191	..	Bdls. 21	..	
		Total, minor produce.	Mds.475	..	..	Mds.3,024 Bdls. 212	.. ..	Mds.3,499 Bdls. 212	.. ..	.. ..	Mds.3,279 Bdls. 191	.. ..	Mds. 220 Bdls. 21	.. ..	Estimated ½ maund each.
Cuddapah.	Kodúr ..	Red sanders roots.	..	..	Forest	Tons1,044	..	Tons1,044	..	Sold	Tons1,044	..	..	..	
	Orampad ..	Do. ..	..	..	Do. .. .. Excess on issue.	,, 1,030 ,, 3	..	,, 1,033	..	Do.	,, 1,030	..	Tons 3	..	
	Peddapad..	Do. ..	..	..	Forest	,, 88	..	,, 88	..	Do.	,, 88	..	..	..	
		Total, timber ..	..	..	..	Tons2,165	80,827	Tons2,165	80,827	..	Tons2,162	80,715	Tons 3	112	At 60 lb. = 1 C. foot.
	Kodúr ..	Bamboos	6,108	..	..	..	..	6,108	..	Sold	6,108	..	..	..	
	Peddapad..	Do.	30,088	..	Balapalle reserve.	472	..	30,560	..	Do. .. .. .. Taken to Rájampet Range.	28,860 1,700	..	..	..	
	Madras ..	Do.	..	..	..	276	..	276	..	Used departmentally .. Sold	197 79	..	..	..	
	Rájampet..	Do.	..	..	Peddapad depôt.	1,700	..	1,700	..	Do. .. .. .. Used departmentally..	700 1,000	..	..	..	
		Total, bamboos ..	36,196	..	..	2,448	..	38,644	..	..	38,644	..	..	..	

Receipts and Issues of Timber and other Produce in sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the Year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	
Cuddapah—*cont.*	Kodúr	Thatch grass ..	..	..	Forest	Ton ½	..	Ton ½	..	Sold	Ton ½	..	..	..	=45 mds. of 25 lb.
		Honey	Md. 1	..	..	..	..	Md. 1	..	Do.	..	..	Md. 1	..	
		Wax	,, 1	..	..	..	..	,, 1	..	Do.	..	..	,, 1	..	
	Cuddapah.	Gallnuts B. ..	Mds. 799	..	Sidout	Mds 11	..	Mds. 815	..	Do.	Mds. 815	..	..	..	
					Excess in weight.	,, 5									
	Madanapalle.	Sheakoy	..	..	Horsleykonda ..	,, 54	..	,, 54	..	Do.	,, 54	..	..	..	
		Mangoes	..	..	..	825	..	825	..	Do.	825	..	..	..	
		Pomegranates ..	..	..	..	45	..	45	..	Do.	45	..	..	..	
		Total, minor produce.	Mds. 801	..	..	,, 115	..	Mds. 916	..	..	Mds. 914	..	Mds. 2	..	Estimate 75 = 1 maund.
					..	,, 870	..	870	..	..	870	..	..	..	
Bellary.	Hospet	Firewood	Tons 89	6,130	..	..	..	Tons 89	6,130	Sold	Tons 106	7,690	..	..	
		Do. creepers.	,, 26	1,560	..	..	..	,, 26	1,560	Dryage	,, 9	..	..	..	
		Total, fuel ..	Tons 115	..	..	..	..	Tons 115	..	..	Tons 115	..	..	..	
	Bellary	Kamila	lb. ¾	..	..	..	..	lb. ¾	..	..	..	..	lb. ¾	..	
		Gallnuts B ..	..	..	Sandur	Mds. 77	..	Mds. 77	..	..	..	..	Mds. 77	..	
		Total, minor produce.	lb. ¾	..	..	Mds. 77	..	Mds. 77	..	..	..	..	Mds. 77	..	
								lb. ¾	..	..	..	..	lb. ¾	..	
Anantapur.	Bukkapatnam.	Teak poles ..	477	40	..	..	..	477	40	Sold	475	40	..	..	
		Do. pieces ..	108	15	..	..	..	108	15	Used departmentally ..	2		108	15	
		Total, timber ..	585	55	..	..	..	585	55	..	477	40	108	15	
	Bukkapatnam.	Honey	Mds.* 41	..	Kottakota Forests.	Mds. 35	..	76	..	Sold	Mds. 18½	..	Mds. 57½	..	
		Wax	Srs. 139	..	..	Seers 68	..	Seers 207	..	Do.	Srs. 175	..	Seers 24	..	½ maund.
			Mds. 3½	..	..	Mds. 1¾	..	Mds. 5¼	..	Dryage	Mds. 8	..			
											,, 4¾	..			
		Gallnuts C. ..	,, 27	..	..	,, 29	..	,, 56	..	Sold	,, 54	..	Md. 1	..	
		Do. B. ..	,, 234	..	..	,, 2	..	,, 236	..	Dryage	Md. 1	..			
										Sample	,, 1	..	Mds. 235	..	

* *Vide* remarks in Form No. 69.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. of Quantity.	Cubic feet.	
Anantapur—*cont.*	Bukkapatnam—(*Contd.*)	Tamarind ..	Mds. 24	..	..	Mds. 121	..	Mds. 145	..	Sold	Mds. 112	..	Mds. 5	..	
										Wastage	,, 28				
		Yepi fibre ..	..	..	..	,, 5	..	,, 5	..	Sold	,, 5	..	..	..	
		Banyan seeds ..	Meas. 44	..	..	..	..	Meas. 44	..	Written off	Meas. 44	..	..	..	2 mds. estimate.
		Kanuga do. ..	..	..	..	Mds. 19	..	Mds. 19	..	Sample	Mds. 2	..	Mds. 17	..	
	Gooty ..	Babul pods ..	Tons 6 or Mds. 538	..	Khojjepalle ..	Tons 3 or Mds. 269	..	Tons 9	..	Sent to Agricultural Department.	Tons 6	..	Tons 3	..	
		Do. bark ..	Md. 1	..	..	..	..	Md. 1	..	..	..	..	Md. 1	..	
		Total, minor of produce ..	Mds. 870½	..	..	Mds. 481¾	..	Mds. 1,352¼	..	..	766¼	..	Mds. 586	..	
Nilgiris.	Coonoor ..	Blue gum drag-poles.	..	..	Kullar reserve ..	No. 8	..	No. 8	..	..	..	..	8	..	Estimated each ½ C.ft.
	Masnacoil ..	Miscellaneous drag-poles.	..	..	Moyar	,, 642	..	,, 642	..	Sold	No. 642	..	..	..	Branch wood.
	Kullar ..	Do. do. ..	..	..	Kullar reserve ..	,, 4,085	..	,, 4,085	..	..	,, 3,833	..	252	..	Saplings.
		Total, timber ..	..	..	..	4,735	..	4,735	..	..	4,475	..	260	..	
	Ootacamund.	Firewood (blue gum and shola wood).	Tons 28	..	Governor's shola, Aramby, and Cairn hill.	Tons 889	..	Tons 917	..	Sold	Tons 358	..	Tons 359	..	
										Dryage	,, 200				
	Coonoor ..	Firewood (blue gums and acacia and shola wood).	..	..	Coonoor Peak Ghât reserve Bandy shola.	,, 213	..	,, 213	..	Sold	,, 108	..	,, 81	..	
										Dryage	,, 24				
	Wellington.	Firewood (blue gum).	..	..	Coonoor Peak ..	,, 58	..	,, 58	..	Sold	,, 56	..	,, 2	..	
		Total, fuel ..	Tons 28	..	..	Tons 1,160	..	Tons 1,188	..	..	Tons 746	..	Tons 442	..	
	Coonoor ..	Blue gum seeds ..	..	..	..	lb. 1¼	..	lb. 1¼	..	Sold	lb. 1¼	..	..	..	
	Kullar ..	Gallnuts C. ..	..	..	..	Mds. 118	..	Mds. 118	..	Do.	Mds. 118	..	..	..	
	Melúr ..	Do. C. ..	..	..	..	,, 260	..	,, 260	..	Do.	,, 255	..	..	..	
										Dryage	,, 5	..			
	All ranges.	Sheakoy	..	..	..	,, 105½	..	,, 105½	..	Sold	,, 105½	..	..	..	
	Kullar ..	Tamarind ..	..	..	..	Md. 1	..	Md. 1	..	..	..	..	Md. 1	..	
		Total, minor produce ..	..	..	..	Mds. 484½	..	Mds. 484½	..	..	Mds. 483½	..	Md. 1	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. of Quantity.	Cubic feet.	
							ABSTRACT.								
	..	Teak poles, &c. ..	585	55	..	1,553	9,907	2,138	9,962	..	2,030	9,947	108	15	
	..	Sál logs	729	7,815	..	2,338	27,055	3,067	34,870	..	3,057	34,764	10	106	
	..	Red sanders and roots, &c. ..	..	1,196	..	Tons2,165	..	Tons2,165	..	..	Tons2,162	..	Tons 3	..	
	..	Sleepers and pieces.	809	257	..	1,763	3,813	2,572	5,009	..	2,570	5,002	2	7	
	..	Miscellaneous wood (logs and poles).	594	..	..	10,246	13,895	10,840	14,152	..	9,686	12,266	1,154	1,886	
	..	Fuel	Tons 769	..	..	Tons7,958	..	Tons8,727	..	..	Tons7,636	..	Tons1,091	..	
	..	Bamboos	,, 36,196	..	..	,, 2,448	..	,, 38,644	..	..	,, 38,644	..	..	..	
	..	Nux-vomica ..	..	..	..	Mds.1,774	..	Mds.1,774	..	..	Mds.1,774	..	..	..	
	..	Cheyroot	..	..	..	,, 502	..	,, 502	..	..	,, 282	..	Mds. 220	..	
	..	Soap-nuts ..	..	..	..	,, 288	..	,, 288	..	..	,, 288	..	..	..	
	..	Tangedu	Mds. 475	..	..	,, 460	..	,, 935	..	..	,, 935	..	..	..	
	..	Honey	,, 42	..	..	,, 35	..	,, 77	..	..	,, 18½	..	,, 58½	..	
	..	Wax	,, 4½	..	..	,, 1¾	..	,, 6¼	..	..	,, 4¾	..	,, 1½	..	
	..	Gallnuts B. ..	,, 1,033	..	..	,, 95	..	,, 1,128	..	..	,, 816	..	,, 312	..	
	..	Do. C. ..	,, 27	..	..	,, 407	..	,, 434	..	..	,, 433	..	Md. 1	..	
	..	Sheakoy	..	..	..	,, 159½	..	,, 159½	..	..	,, 159½	..	..	..	
	..	Tamarind ..	Mds. 24	..	..	,, 122	..	,, 146	..	..	,, 140	..	Mds 6	..	
	..	Babul.. { pods ..	,, 538	..	..	,, 269	..	,, 807	..	..	,, 538	..	,, 269	..	
	..	Babul.. { bark ..	Md. 1	..	..	..	..	,, 1	..	..	..	..	Md. 1	..	
	..	Yepi fibre.. ..	..	..	..	,, 5	..	,, 5	..	..	Mds. 5	..	..	..	
	..	Kanuga seeds ..	..	..	..	,, 19	..	,, 19	..	..	,, 2	..	Mds. 17	..	
	..	Fruits	..	..	..	,, 870	..	,, 870	..	..	,, 870	..	..	..	
	..	Kamila dye ..	lb. ¾	..	..	..	..	lb. ¾	..	..	..	..	lb. ¾	..	
	..	Banyan seeds ..	Mds. 2	..	..	..	..	Mds. 2	..	..	,, 2	..	..	..	
	..	Thatch grass ..	..	..	..	Bdls. 45	..	Bdls. 45	..	..	Bdls. 45	..	..	..	
	..	Rattans	..	..	..	,, 212	..	,, 212	..	..	,, 191	..	Bdls. 21	..	
	..	Blue gum seeds ..	..	..	..	lb. 1¼	..	lb. 1¼	..	..	..	..	lb. 1¼	..	

ANNUAL FORM No. 71.

Forest Department, Madras, Northern Circle.

Sales of timber and other produce cut and collected by Government agency during the year 1885-86.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold from depôt.				Rs. A. P.	Rs. A. P.			
Ganjam..	..	Russellkonda ..	I (*a*)	Sál logs	1,845	18,446	14,076 at 6 ans. 4,370 at 1½ ,,	5,278 8 0 550 7 3	5,829 9 9	1,845	..	
				Do. b. g. sleepers ..	351	1,219	Rs. 2 1 9 each.	741 8 0	741 8 0	351	..	
				Do. m. g. do. ..	832	1,822	,, 0 14 10 ,,	775 0 0	775 0 0	157	675	
				Do. n. g. do. ..	1,072	1,436	,, 0 6 8	448 2 0	448 2 0	461	611	
				Do. slabs, ends, &c..	5,832	..	Auction.	402 2 9	334 12 10	5,832	..	
				Piasál logs	15	286	Rs. 0 6 0 c. ft.	107 4 0	102 0 0	15	..	
				Ebony	4	72	,, 1 4 0 ,,	90 0 0	71 4 0	4	..	
				Sajo	74	1,161	,, 0 4 0 ,,	290 8 0	263 12 0	74	..	
				Dhau	8	135	,, 0 4 0 ,,	33 12 0	32 0 0	8	..	
				Cotton tree	159	2,146	,, 0 1 6 ,,	201 3 0	201 3 0	159	..	
				Miscellaneous ..	64	754	,, 0 2 10 ,,	129 11 6	126 7 9	64	..	
	..	Surada	Do.	Sál logs	115	1,221	,, 0 6 0 ,,	457 14 0	457 14 0	115	..	
				Do. ..	46	..	,, 1 3 8 each.	56 7 9	56 7 9	46	..	
				Piasál logs	13	116	,, 0 6 0 c. ft.	43 8 0	43 8 0	13	..	
				Sajo	32	510	,, 0 4 0 ,,	127 8 0	127 8 0	32	..	
				Miscellaneous ..	11	..	,, 0 1 10 each.	9 8 9	9 8 9	11	..	
	..	Berhampore ..	Do.	Sál logs	35	284	Auction.	161 8 0	161 8 0	35	..	
						323	Rs. 0 8 0 c. ft.	161 8 0				
				Blackwood	1	14	,, 0 8 0 ,,	7 8 0	..	1	..	
				Piasál	3	31	,, 0 8 0 ,,	15 8 0	..	3	..	
	..	Gopálpur ..	Do.	Sál logs	69	1,250	,, 0 9 0 ,,	689 2 0	..	69	..	
							,, 0 5 0 ,,					
				Sajo	1	12	,, 0 7 0 ,,	5 4 0	..	1	..	
				Cotton wood ..	100	757	,, 0 1 6 ,,	70 15 6	..	100	..	
	..	Madras.. ..	Do.	Sál logs	20	478	,, 1 12 0 ,,	835 5 3	835 5 3	20	..	
				Total Timber ..	10,702	32,473	..	11,689 11 9	10,617 7 1	9,416	1,286	
				Total Ganjam ..	10,702	32,473	..	11,689 11 9	10,617 7 1	9,416	1,286	
Godávari..	..	Rajahmundry ..	Do.	Teak..	1,553	9,907	Auction.	5,363 7 0	5,363 7 0	1,553	..	Drift timber.
				Miscellaneous ..	205	2,210	..	322 15 6	322 15 6	205	..	
				Total Timber ..	1,758	12,117	..	5,686 6 6	5,686 6 6	1,758	..	
				Total Godávari ..	..	..	..	5,686 6 6	5,686 6 6	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued*.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								Rs. A. P.	Rs. A. P.			
Nellore ..	..	Madras	I (*a*)	Narudu poles ..	491	732	..	129 14 0	129 14 0	491	..	
				Casuarina	1	2	Rs. 0 9 0 each.	0 9 0	0 9 0	1	..	
	..	Gúdúr	Do.	Sleepers	315	525	„ 1 14 0 „	590 10 0	590 10 0	315	..	
				Rotten post	..	..	..	1 4 6	1 4 6	..	..	
				Total Timber ..	807	1,259	..	722 5 6	722 5 6	807	..	
	..	Madras	I (*b*)	Firewood	2,399,121	2,654	..	21,195 14 4	21,195 14 4	2,399,121	..	
				Do. bundles ..	42,136	1,686	..	10,917 1 9	10,917 1 9	42,136	..	
				Do. casuarina ..	Tons 2,387	..	..	19,305 4 2	*19,505 4 2	2,387	..	* Rs. 200 deposit is included.
				Total Fuel ..	Tons 6,775	..	..	51,418 4 3	51,618 4 3	Tons 6,775	..	
	..	Madras	I (*c*)	Nux-vomica ..	Maunds 1,774	..	S. 10 D. 6 a cwt.	1,697 7 11	1,697 7 11	Mds. 1,774	..	Sold in London.
				Chey root	„ 278	..	..	934 8 1	† 1,769 12 1	„ 278	..	† Includes Rs. 835-4-0 deposit.
				Soap-nuts	„ 214	..	Rs. 8-10-0 per cdy.	92 2 8	92 2 8	„ 214	..	
				Tangedu bark ..	„ 901	..	„ 10-0-0 „	450 8 8	450 8 8	„ 901	..	
				Rattans	Bundle 191	..	„ 5-8-0 bundle.	1,073 11 0	1,073 11 0	Bds. 191	..	
				Suratichekka ..	..	..	..	..	5 0 0	..	..	Deposit.
				Total Minor Produce.	Maunds 3,167 Bundles 191	..	..	4,248 6 4	5,088 10 4	Mds. 3,167 Bundles 191	..	
				Total Nellore ..	..	..	..	56,389 0 1	57,429 4 1	..	..	
Cuddapah.	..	Kódúr, &c. ..	I (*a*)	Red sanders roots, &c.	Tons 2,162	80,715	..	34,272 4 0	34,272 4 0	Tons ‡2,162	..	‡ Includes 150 tons paid for last year, but removed this year.
				Total Timber ..	Tons 2,162	80,715	..	34,272 4 0	34,272 4 0	Tons 2,162	..	
	..	Kódúr, &c. ..	I (*c*)	Bamboos	35,747	..	..	513 11 11	513 11 11	35,747	..	
				Total Bamboos ..	35,747	..	..	513 11 11	513 11 11	35,747	..	
	..	Kódúr, &c. ..	I (*e*)	Thatch grass ..	Maunds 45	..	Auction.	1 8 0	1 8 0	Maunds 45	..	
				Gallnuts B	„ 815	..	Rs. 7 per candy.	265 4 0	285 4 0	„ 815	..	
	..	Madanapally ..	Do.	Sheakoy	„ 54	..	„ 1-6-0 per md.	74 4 0	74 4 0	„ 54	..	
				Fruits	„ 870 or 12	..	..	26 9 6	26 9 6	„ 870	..	Estimate 75 to a maund.
			Do.	Total Minor Produce.	Maunds 926	..	..	387 9 6	387 9 6	Maunds 926	..	
				Total Cuddapah ..	..	..	..	35,173 9 5	35,173 9 5	..	..	
Bellary ..	..	Hospet	I (*b*)	Firewood	Tons 106	..	Auction.	166 4 0	166 4 0	Tons 106	..	
				Total Fuel ..	Tons 106	..	..	166 4 0	166 4 0	Tons 106	..	
				Total Bellary ..	..	..	..	166 4 0	166 4 0	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								Rs. A. P.	Rs. A. P.			
			I (*a*)	Teak poles	475	40	Auction.	27 10 6	27 10 6	475	..	
				Total Timber ..	475	40	..	27 10 6	27 10 6	475	..	
Anantapur..	..	Bukkapatnam.										
			I (*e*)	Honey	Maunds 18½	..	..	40 8 9	40 8 9	Mds. 18½	..	
				Wax	,, 4½	..	Rs. 8 7 6 md.	36 6 5	36 6 5	,, 4½	..	
				Gallnuts, C. ..	,, 54	..	,, 0 11 0 ,,	37 8 9	37 8 9	,, 54	..	
				Tamarind	,, 112	..	,, 0 3 0 ,,	21 7 0	21 7 0	,, 112	..	
				Yepi fibre	,, 5	..	,, 0 8 6 ,,	2 12 3	2 12 3	,, 5	..	
				Total Minor Produce ..	Maunds 194	..	..	138 11 2	138 11 2	Mds. 194	..	
				Total Anantapur ..	..	..	..	332 9 8	332 9 8	..	..	
	..	Kullar, &c. ..	I (*a*)	Miscellaneous drag poles	4,475	..	As. 3 each.	839 0 0	839 0 0	4,475	..	
	..	Coonoor ..		Do. do. ..	270	..	,, 2 ,,	33 12 0	33 12 0	270	..	
				Total Timber ..	4,745	..	..	872 12 0	872 12 0	4,745	..	
Nilgiris ..	..	Ootacamund ..	I (*b*)	Firewood	Tons 358	..	..	2,472 4 0	2,363 8 0	Tons 358	..	
	..	Coonoor ..		Do.	,, 104	..	..	617 12 0	617 12 0	,, 104	..	
	..	Wellington ..		Do.	,, 103	..	..	845 14 8	768 7 0	,, 103	..	
				Total Fuel ..	Tons 565	..	..	3,935 14 8	3,749 11 0	Tons 565	..	
	..	Kullar and Mélór	I (*e*)	Gallnuts	Maunds 373	..	..	195 8 0	195 8 0	Mds. 373	..	
	..	All ranges ..	Do.	Sheakoy	,, 105½	..	..	91 7 0	91 7 0	,, 105½	..	
				Blue-gum seeds ..	lb. 1½	..	..	9 4 0	9 4 0	lb. 1½	..	
				Total Minor Produce ..	Maunds 478½	..	..	296 3 0	296 3 0	Mds. 478½	..	
				Total Nilgiris ..	..	..	..	5,104 13 8	4,918 10 0	..	..	
				Total Sold from Depôt ..	..	..	..	1,08,856 0 7	1,08,637 12 3	..	..	
				Total Drift ..	..	..	..	5,686 6 6	5,686 6 6	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold Locally.				Rs. A. P.	Rs. A. P.			
Ganjam ..	..	Mojagodo ..	I (*a*)	Sál logs	3,297	36,138	..	10,118 7 6	2,449 4 10	3,297	..	
				Black wood	1	12	As. 4 6 c. ft.	3 6 0	..	1	..	
	..	Kukkúlubá ..	Do.	Sál logs	446	7,694	..	1,291 6 9	..	446	..	
				Sajo	26	356	As. 2 6 c. ft.	68 7 0	..	26	..	
				Dhau	7	102	,, 2 6 ,,	15 15 0	..	7	..	
				Miscellaneous ..	2	38	,, 1 6 ,,	3 9 0	..	2	..	
				Total Timber ..	3,779	44,340	..	11,501 3 3	2,449 4 10	3,779	..	
				Total Ganjam ..	..	..	..	11,501 3 3	2,449 4 10	..	..	
Godávari ..	..	Rékapalle ..	I (*b*)	Firewood	Tons 1,279	..	Rs. 3 a ton.	3,837 8 0	3,837 8 0	Tons 1,279	..	
				Do.	,, 350	..	..	137 8 0	137 8 0	,, 350	..	
				Total Fuel ..	Tons 1,629	..	..	3,975 0 0	3,975 0 0	Tons 1,629	..	
	..	Godávari river ..	III	Teak	843	2,844	Auction.	1,340 7 6	1,340 7 6	843	..	Drift timber.
				Miscellaneous ..	67	944	..	112 9 0	112 9 0	67	..	Drift timber.
				Total Timber ..	910	3,788	..	1,453 0 6	1,453 0 6	910	..	
				Bamboos	5,564	..	Auction.	136 8 0	136 8 0	5,564	..	Dirft
				Total Bamboos ..	5,564	..	..	136 8 0	136 8 0	5,564	..	
				Total Godávari ..	..	..	..	3,975 0 0	3,975 0 0	..	..	
Nellore ..	..	Sríharikót ..	I (*a*)	Stakes and pegs ..	23,643	300	As. 8 0 per 100.	123 3 5	123 3 5	23,643	..	
	..	Rápúr		Sleepers and posts ..	108	167	Auction.	10 2 0	10 2 0	108	..	
	..	Plantation, north.		Casuarina pieces ..	2,584	2,347	..	665 4 9	665 4 9	2,584	..	
	..	Do. south.		Do. piles ..	881	1,521	..	467 14 8	467 14 8	881	..	
				Building materials ..	Tons 1¼	..	..	25 3 2	25 3 2	Tons 1¼	..	
				Total ..	27,216	4,335	..	1,291 12 0	1,291 12 0	27,216	..	
	..	Plantations ..	I (*b*)	Casuarina	411	..	..	2,627 7 5	* 2,677 7 5	411	..	* Includes Rs. 50 deposit.
				Brushwood	..	..	Auction.	26 14 0	26 14 0	..	..	
				Part recovery for wood lost in cyclone.	..	..	..	7 12 0	7 12 0	..	..	
	..	Kávali	Do.	Firewood	Cart loads 5	..	..	9 13 11	9 13 11	C. loads 5	..	
				Total Fuel ..	Tons 413½	..	..	2,671 15 4	2,721 15 4	Tons 413½	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								Rs. A. P.	Rs. A. P.			
Nellore—*continued.*	..	Plantations ..	I (*e*)	Cashew nuts ..	Maunds 85	..	..	33 11 0	33 11 0	Maunds 85	..	
				Casuarina seed ..	,, 4	..	..	35 8 6	35 8 6	,, 4	..	
				Cheyroot	..	..	..	..	* 50 0 0	..	..	* Deposit.
				Total Minor Produce ..	Maunds 89	..	..	69 3 6	119 3 6	Maunds 89	..	
				Total Nellore ..	..	..	..	4,032 14 10	4,132 14 10	..	..	
Cuddapah	..	Kódúr ..	I (*a*)	Miscellaneous wood..	..	139	..	71 8 0	71 8 0	..	..	
				Total Timber ..	..	139	..	71 8 0	71 8 0	..	..	
	..	Badvél ..	I (*b*)	Firewood	Tons 4	..	Auction.	8 8 0	8 8 0	Tons 4	..	
				Total Fuel ..	Tons 4	..	..	8 8 0	8 8 0	Tons 4	..	
	..	Kódúr ..	I (*c*)	Bamboos	620	..	Auction.	11 7 7	11 7 7	620	..	
				Total Bamboos ..	620	..	..	11 7 7	11 7 7	620	..	
	..	Rájampet ..	I (*e*)	Thatch grass ..	Ton 1	..	Auction.	2 8 0	2 8 0	Ton 1	..	
				Total Minor Produce ..	Ton 1	..	..	2 8 0	2 8 0	Ton 1	..	
				Total Cuddapah ..	..	..	..	93 15 7	93 15 7	..	..	
Bellary	..	Sandúr ..	I (*a*)	Palmyra rafters ..	225	..	Auction.	9 0 0	9 0 0	225	..	Estimate 225 cubic feet.
				Total Timber ..	225	..	..	9 0 0	9 0 0	225	..	
			I (*b*)	Firewood	Tons 215	..	..	732 5 9	732 5 9	Tons 215	..	
				Brushwood	,, 43	..	..	37 3 6	37 3 6	,, 43	..	
				Charcoal	Maunds 3	..	As. 5 0 per md.	0 15 0	0 15 0	Maunds 3	..	
				Total Fuel ..	Tons 258	..	..	770 8 3	770 8 3	Tons 258	..	
			I (*e*)	Gallnuts, C. ..	Maunds 56	..	As. 6 0 per md.	21 0 0	21 0 0	Maunds 56	..	
				Honey	Bottles 9	..	,, 8 0 per bot.	4 8 0	4 8 0	Bottles 9	..	½ maund estimate.
				Total Minor Produce ..	Maunds 56½	..	..	25 8 0	25 8 0	Maunds 56½	..	
				Total Bellary ..	..	..	..	805 0 3	805 0 3	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Dépot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								Rs. A. P.	Rs. A. P.			
Anantapur	..	Bukkapatnam.	I (*a*)	Miscellaneous poles..	..	3	..	0 9 0	0 9 0	C. ft. 3	..	
				Babul pieces ..	84	420	..	92 0 0	92 0 0	,, 84	..	
				Miscellaneous pieces.	250	125	..	11 0 0	11 0 0	,, 250	..	
				Total Timber ..	334	548	..	103 9 0	103 9 0	,, 334	..	
	..	Muchukota ..	I (*b*)	Brushwood	Tons 9	..	..	3 8 0	3 8 0	Tons 9	..	
				Miscellaneous dead wood	..	..	..	30 7 0	30 7 0	..	..	
				Total Fuel ..	Tons 9	..	..	33 15 0	33 15 0	Tons 9	..	
	..		I (*c*)	Honey	Maunds 6	..	Rs. 2 per maund.	12 0 0	12 0 0	Maunds 6	..	
				Wax	,, ½	..	..	0 14 0	0 14 0	,, ½	..	
				Gallnuts, C. ..	,, 25	..	As. 12 per maund	18 12 0	18 12 0	,, 25	..	
				Total Minor Produce ..	Maunds 31¼	...	..	31 10 0	31 10 0	Maunds 31¼	..	
				Total Anantapur ..	..	..	..	169 2 0	169 2 0	..	..	
Nilgiris ..	..	Benna ..	I (*a*)	Teak	92	2,424	As. 14 0 C. ft.	2,122 10 0	2,122 10 0	..	..	
	..	....		Blackwood	Logs 55	1,968	,, 4 0 ,,	492 0 0	492 0 0	..	Logs 55	
	..	Teppacadu block.		Teak	182	4,000	,, 12 0 ,,	3,000 0 0	500 0 0	..	..	
	..			Do.		561	As. 14 0 C. ft.	490 14 0	490 14 0	22	160	
	..			Blackwood	60	3,007	,, 4 0 ,,	751 12 0	751 12 0	..	60	
	..			Vengai ..	118	3,665	,, 5 6 ,,	1,259 13 6	1,259 13 6	..	118	
	..	Lovedale ..		Miscellaneous saplings	12	..	..	..	..	..	..	
				Total Timber ..	519	1,5625	..	8,117 1 6	5,617 1 6	..	..	
	..	Ootacamund ..	I (*b*)	Firewood (blue-gum).	Tons 1,728	..	..	9,181 7 11	9,181 7 11	Tons 1,728	..	
	..	....		Sholawood	,, 222	..	..	1,318 12 0	1,311 8 0	,, 222	..	
	..	Coonoor ..		Firewood (blue-gum).	,, 570	..	..	1,513 1 6	1,364 9 6	,, 570	..	
	..	....		Do. (Sholawood)	,, 104	..	..	270 10 0	270 10 0	,, 104	..	
	..	....		Do. (acacia) ..	,, 8	..	..	30 4 6	30 4 6	,, 8	..	
				Total Fuel ..	Tons 2,632	..	..	12,314 3 11	12,158 7 11	Tons 2,632	..	
	..	Sigur	I (*d*)	Sandalwood roots, &c.	Maunds 910	..	..	3,080 10 0	3,080 10 0	Maunds 910	..	
				Total Sandalwood ..	Maunds 910	..	..	3,080 10 0	3,080 10 0	Maunds 910	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								Rs. A. P.	Rs. A. P.			
Nilgiris—*continued*..	..	Sigúr, &c. ..	I (*c*)	Gallnuts, C. ..	Maunds 1,004	..	..	511 8 0	511 8 0	Mds. 1,004	..	
	..	All ranges ..		Sheakoy	,, 23	..	..	18 6 0	18 6 0	,, 23	..	
				Honey	Bottles 82½	..	..	37 8 0	37 8 0	Bottles 82½	..	1 maund = 12 bottles estimate.
				Wax	Maunds 5	..	..	48 6 0	48 6 0	Mds. 5	..	
				Horns	,, 4½	..	..	11 13 0	11 13 0	,, 4½	..	
				Soapnuts	Maund 1	..	..	..	..	Maund 1	..	
				Tamarind	Maunds 5	..	As. 8 0 per md.	2 8 0	2 8 0	Maunds 5	..	
				Total Minor Produce ..	Maunds 1,049½	..	..	630 1 0	630 1 0	Mds. 1,049½	..	
				Total Nilgiris ..	..	..	..	24,142 0 5	21,486 4 5	..	..	
				Total Sold Locally ..	..	..	..	44,719 4 4	33,111 9 11	..	..	
				Total Drift ..	..	..	..	1,589 8 6	1,589 8 6	..	..	
				Grand Total ..	..	..	..	1,60,851 3 11	1,49,025 5 2	..	..	

Annual Form No. 72.

Forest Department, Madras, Northern Circle.

Timber and other produce cut, collected and removed from the forests by consumers or purchasers including pasture during the year 1885-86.

Districts.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Ganjam	Timber .. .. Cart-loads.	212	413	413	
	Total Timber ..	212	413	413	II (*a*). Rs. 460 in form 64.
	Firewood .. .. Cart-loads.	44,551	11,586	11,586	
	Total Fuel ..	44,551	11,586	11,586	II (*b*).
	Bamboos .. .. .. Cart-loads.	7,960	3,156	3,156	
	Total Bamboos ..	7,960	3,156	3,156	II (*c*).
	Lease of fruits	..	604	604	
	Total Minor Produce ..	..	604	604	II (*e*). Rs. 442 in form 64.
	Grand Total Cart-loads ..	52,723	15,759	15,759	Rs. 15,644 in form 64.
Vizagapatam	Nallamaddi trees	62	186	186	
	Timber .. .. .. Cart-loads.	239	255	255	
	Total Timber. Trees .. / Cart-loads.	62 / 239	441	441	II (*a*). Rs. 433 in form 64.
	Firewood .. .. Cart-loads.	5,870	2,193	2,193	
	Charcoal .. .. .. ,, ..	336	210	210	
	Total Firewood and Charcoal ..	6,206	2,403	2,403	II (*b*). Rs. 2,414 in form 64.
	Bamboos .. .. Cart-loads.	3,242	1,053	1,053	
	Total Bamboos ..	3,242	1,053	1,053	II (*c*). Rs. 979 in form 64.
	Palmyra leaves	..	61	61	
	Total Minor Produce ..	..	61	61	II (*e*). Rs. 60 in form 64.
	Grand Total. Trees .. / Cart-loads ..	62 / 9,687	3,958	3,958	Rs. 3,886 in form 64.
Godávari	Timber .. .. Pieces ..	116,519	32,006	32,006	
	Do. .. .. .. Cart-loads ..	2,328			
	Sale-proceeds of trees	..	578	578	
	Total Timber .. Pieces .. / Cart-loads ..	116,519 / 2,328	32,584	32,584	II (*a*). Rs. 32,473 in form 64.
	Firewood .. .. .. Cart-loads.	14,194	4,898	4,898	
	Sale of dead trees	..	424	424	
	Charcoal .. .. Cart-loads.	124	211	211	
	Total Firewood and Charcoal Cart-loads ..	14,318	5,533	5,533	II (*b*). Rs. 5,633 in form 64.
	Bamboos .. .. No.	264,250	1,321	1,321	
	Do. .. .. .. Cart-loads.	6,585	6,625	6,625	
	Total Bamboos. No. / Cart-loads.	264,250 / 6,585	7,946	7,946	II (*c*). Rs. 7,929 in form 64.
	Grazing	..	1,161	1,161	
	Total Grazing ..	..	1,161	1,161	II (*d*).
	Other minor produce	..	372	372	
	Total Minor Produce ..	..	372	372	II (*e*). Rs. 358 in form 64.
	Grand Total. No. / Cart-loads.	380,769 / 23,231	47,596	47,596	Rs. 47,554 in form 64.

Timber and other produce cut, collected and removed from the forests, &c.—*continued.*

Districts.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Kistna	Timber .. .. .. Cart-loads.	716	1,531	1,531	
	Do. .. .. No.	371	99	99	
	Palmyra trees	..	3,670	3,670	
	Total Timber. No. / Cart-loads.	371 / 716	5,300	5,300	II (*a*). Rs. 4,736 in form 64.
	Firewood .. .. Cart-loads.	19,245	7,289	7,289	
	Charcoal .. .. ,, ..	182	213	213	
	Total Firewood and Charcoal Cart-loads.	19,427	7,502	7,502	II (*b*). Rs. 8,159 in form 64.
	Bamboos .. .. Cart-loads.	1,035	1,044	1,044	
	Split bamboos .. .. ,, ..	56	116	116	
	Total Bamboos Cart-loads ..	1,091	1,160	1,160	II (*c*). Rs. 1,025 in form 64.
	Grazing	..	34,009	34,009	
	Total Grazing ..	..	34,009	34,009	II (*d*). Rs. 30,999 in form 64.
	Thorns .. .. .. Cart-loads.	1,003	570	570	
	Tangedu bark .. .. ,, ..	248	517	517	
	Tsnava .. .. .. ,, ..	863	562	562	
	Palmyra leaves	..	612	612	
	Minor produce	..	5,751	5,751	
	Total Minor Produce ..	2,114	8,012	8,012	II (*e*). Rs. 10,352 in form 64.
	Grand Total. No. / Cart-loads.	371 / 23,348	55,983	55,983	Rs. 55,271 in form 64.
Nellore	Palmyra trees	431	473	473	
	Timber .. .. .. Cart-loads.	223	261	261	
	Sale of wood on darkhast lands, &c ..	..	1,782	1,782	
	Total Timber .. No. / Cart-loads.	433 / 222	2,516	2,516	II (*a*). Rs. 2,571 in form 64.
	Firewood .. .. Cart-loads.	5,271	3,953	3,051	
	Sale of firewood on Asalaminah lands.	..	155	155	
	Total Firewood Cart-loads ..	5,271	4,108	3,206	II (*b*). Rs. 3,198 in form 64.
	Bamboos .. .. Cart-loads.	8	4	4	
	Total Bamboos ..	8	4	4	II (*c*)
	Grazing and fodder grass	..	55	55	
	Total Grazing and Fodder Grass ..	..	55	55	II (*d*).
	Rents of topes, of jungle produce, &c.	..	1,748	1,748	
	Soap-stone licenses	31	61	61	
	Palmyra leaves	129,737	276	276	
	Cocoanut plants	664	42	42	
	Other minor produce	..	167	167	
	Total Minor Produce ..	31 / 130,401	2,294	2,294	II (*e*). Rs. 2,131 in form 64.
	Grand Total .. Cart-loads. / No.	5,502 / 130,865	8,977	8,075	Rs. 7,959 in form 64.
Cuddapah	Miscellaneous timber * .. Cart-loads.	4,941	13,444	13,444	* As per details given in the same form for 1884-85.
	Sale-proceeds of trees on darkhast lands.	2,080	3,682	3,682	
	Total Timber ..	7,021	17,126	17,126	II (*a*). Rs. 17,288 in form 64.
	Firewood .. .. Cart-loads.	43,684	16,845	16,845	
	Sale of dead trees	6,660	5,909	5,909	
	Engine fuel	33,110	37,116	37,116	
	Charcoal	712	1,234	1,234	
	Total Firewood and Charcoal ..	84,166	61,104	61,104	II (*b*).

Timber and other produce cut, collected and removed from the forests, &c.—*continued.*

Districts.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Cuddapah—*continued.*	Bamboos .. .. No.	578,596	5,457	5,457	
	Total Bamboos ..	578,596	5,457	5,457	II (*c*). Rs. 5,458 in form 64.
	Grass .. .. .. Cart-loads.	816	296	296	
	Total Grass ..	816	296	296	II (*d*).
	Tangedu bark .. .. Cart-loads.	1,678	7,603	7,603	
	Miscellaneous bark .. ,, ..	5,824	32,731	32,731	
	Other minor produce	626	1,753	1,753	
	Total Minor Produce ..	8,128	42,087	42,087	II (*e*). Rs. 42,089 in form 64.
	Grand Total .. Cart-loads.	100,131	126,070	126,070	Rs. 1,26,235 in form 64.
	Grand Total .. No.	578,596			
Kurnool ..	Timber .. .. Cart-loads.	17,497	41,716	41,716	
	Do. poles .. .. No.	56	1	1	
	Total Timber .. No.	56	41,717	41,717	II (*a*).
	Total Timber .. Cart-loads.	17,497			
	Firewood .. .. Cart-loads.	22,131	13,330	13,330	
	Charcoal .. .. ,, ..	1,829	2,717	2,717	
	Total Firewood and Charcoal ..	23,960	16,047	16,047	II (*b*). Rs. 16,112 in form 64.
	Bamboos .. .. .. Cart-loads.	11,109	10,317	10,317	
	Total Bamboos ..	11,109	10,317	10,317	II (*c*).
	Grazing	..	1,510	1,510	
	Total Grazing ..	..	1,510	1,510	II (*d*). Rs. 1,514 in form 64.
	Minor produce bark .. Cart-loads.	1,562	1,970	1,970	
	Total Minor Produce ..	1,562	1,970	1,970	II (*e*). Rs. 1,965 in form 64.
	Grand Total .. No.	56	71,561	71,561	Rs. 71,625 in form 64.
	Grand Total .. Cart-loads.	54,128			
Bellary ..	Timber .. .. No.	425	338	338	
	Do. .. .. .. Cart-loads.	21			
	Miscellaneous .. .. .. No.	375	48	48	
	Do. .. .. Cart-loads.	20			
	Total Timber .. No.	800	386	386	II (*a*). Rs. 425 in form 64.
	Total Timber .. Cart-loads.	41			
	Firewood .. .. Cart-loads.	6,336	2,544	2,549	
	Charcoal .. .. ,, ..	490	786	786	
	Total Firewood and Charcoal ..	6,828	3,330	3,335	II (*b*).
	Bamboos .. .. No.	32,133	443	443	
	Do. .. .. .. Cart-loads.	4	8	8	
	Total Bamboos .. No.	32,133	451	451	II (*c*). Rs. 452 in form 64.
	Total Bamboos .. Cart-loads.	4			
	Grass .. .. .. Cart-loads.	5,688	2,107	2,107	
	Grazing fees .. .. Head-loads.	4,196	93	93	
	Total Grazing and Fodder Grass. Cart-loads.	5,688	2,200	2,200	II (*d*). Rs. 2,201 in form 64.
	Total Grazing and Fodder Grass. Head-loads.	4,196			
	Tangedu bark .. .. Cart-loads.	899	4,496	4,496	
	Vala ,, ... ,, ..	11	22	22	
	Leaves for manure	16	6	6	
	Rent of fruit trees	..	6,602	6,602	
	Total Minor Produce ..	926	11,126	11,126	II (*e*).
	Grand Total .. No.	37,129	17,493	17,493	Rs. 17,539 in form 64.
	Grand Total .. Cart-loads.	13,485			

Timber and other produce cut, collected and removed from the forests, &c.—*continued.*

Districts.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs	Rs.	
Anantapur ..	Palmyra trees .. .. .. No.	167	503	503	
	Miscellaneous trees .. .. ,,	26	32	32	
	Timber .. .. .. Cart-loads.	106	369	369	
	Total Timber .. No.	193	904	904	II (*a*). Rs. 905 in form 64.
	Total Timber .. Cart-loads.	106			
	Firewood .. .. Cart-loads.	1,219	1,514	1,514	
	Charcoal .. .. ,, ..	42	67	67	
	Total Firewood and Charcoal ..	1,261	1,581	1,581	II (*b*). Rs. 1,611 in form 64.
	Bamboos	..	..	..	II (*c*). Rs. 1,222 in form 64.
	Grass	..	14	14	
	Total Grass ..	..	14	14	II (*d*).
	Tangedu bark .. .. Cart-loads.	224	5,570	5,570	
	Do. leaves .. ,, ..	704	1,320	1,320	
	Palmyra ,, ... ,, ..	..	53	53	
	Jolli contract	..	1,251	1,251	
	Amroy ,, ...	..	3,610	3,610	
	Total Minor Produce ..	928	11,804	11,804	II (*e*). Rs. 10,582 in form 64.
	Grand Total .. No.	193	14,303	14,303	Rs. 14,334 in form 64.
	Grand Total .. Cart-loads.	2,295			
Nilgiris ..	Teak trees	2	10	10	
	Miscellaneous timber .. Cart-loads.	179	1,163	1,163	
	Do. ,, .. No.	611			
	Total Timber .. Cart-loads.	179	1,173	1,173	II (*a*). Rs. 1,213 in form 64.
	Total Timber .. No.	613			
	Firewood .. .. Cart-loads.	4,473	5,078	5,078	
	Charcoal .. .. ,, ..	2	12	12	
	Total Firewood and Charcoal Cart-loads ..	4,475	5,090	5,090	II (*b*). Rs. 5,311 in form 64.
	Bamboos (large and small .. No.	72,412	1,096	1,096	
	Do. (do.) Cart-loads.	391			
	Do. split .. .. ,, ..	296	740	740	
	Total Bamboos .. No.	72,412	1,836	1,836	II (*c*). Rs. 1,839 in form 64.
	Total Bamboos .. Cart-loads.	687			
	Grass .. .. .. Cart-loads.	517	161	161	
	Grazing fees	..	53	53	
	Total Grazing Cart-loads ..	517	214	214	II (*d*). Rs. 209 in form 64.
	Coffee seeds	..	16	16	Rent.
	Canes .. .. .. Cart-loads.	9	9	9	
	Reeds .. .. No.	10,450	41	41	
	Do. .. .. .. Cart-loads.	11			
	Wattle .. .. .. ,, ..	29	47	47	
	Vembadam, &c., bark	7	74	74	
	Other minor produce	4	3	3	
	Indigenous plants .. .. No.	1,000	10	10	
	Sweet flags	..	15	15	
	Elephant tusks	2	15	15	
	Total Minor Produce .. No.	11,452	230	230	II (*e*). Rs. 236 in form 64.
	Total Minor Produce .. Cart-loads.	60			
	Grand Total .. No.	84,477	8,543	8,543	Rs. 8,808 in form 64.
	Grand Total .. Cart-loads.	5,918			
	Grand Total of Revenue of the Northern Circle under II. No.	1,212,518	3,70,243	3,69,346	Rs. 3,68,855 in form 64.
	Grand Total of Revenue of the Northern Circle under II. Cart-loads.	290,448			

Annual Form No. 73-A.

Forest Department, Madras, Northern Circle.

Abstract showing the value of timber and other produce at Sale Depôts for the year 1885-86.

Districts.	Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Ganjam	Sál logs	637	7,718	5,242	9	102	101	..	5,141	
	Do. sleepers	494	671	250	2	7	1	..	249	
	Do. slabs, &c.	1,143	..	55	52	..	6	..	49	
	Do. poles	105	..	75	..	..	..	..	75	
	Pisasal logs	12	97	60	1	4	2	..	58	
	Sissua ,, (blackwood)	4	52	35	2	15	9	..	26	
	Miscellaneous logs	13	105	30	57	980	569	539	..	
	Do. poles	15	..	10	..	..	..	..	10	
	Total, Ganjam ..	2,423	8,643	5,757	123	1,108	688	..	5,069	
Nellore	Miscellaneous poles and sleepers	877	525	661	831	843	261	..	400	
	Firewood	Tons 615	..	4,975	Tons 649	..	5,213	238	..	
	Tangedu bark	..	..	404	..	..	..	..	404	
	Rattons Bundle	..	..	..	Bundles 21	..	115	115	..	
	Cheyroot	..	..	..	Mds. 220	..	880	880	..	
	Total, Nellore ..	..	..	6,040	..	..	6,469	429	..	
Cuddapah ..	Redwood roots, &c.	..	..	..	Tons 3	..	50	50	..	
	Bamboos	36,196	..	724	..	..	..	..	724	
	Minor produce	Mds. 801	..	282	Mds. 2	..	2	..	280	
	Total, Cuddapah ..	..	..	1,006	..	..	52	..	954	
Bellary	Firewood	Tons 115	..	582	..	..	..	..	582	
	Minor produce	lb. 3/4	..	1	Mds. 77 / lbs. 3/4	..	29 / 1	29	..	
	Total, Bellary ..	..	..	583	..	..	30	..	553	
Anantapur ..	Teakwood (poles, spokes and felloes) ..	585	..	67	108	15	19	..	48	
	Minor produce	Mds. 870½	..	3,140	Mds. 586	..	530	..	2,610	
	Total, Anantapur ..	..	..	..	..	..	549	..	2,658	
Nilgiris	Miscellaneous poles	..	..	..	260	..	48	48	..	
	Firewood	Tons 28	..	87	Tons 442	..	2,776	2,689	..	
	Minor produce	..	..	..	Md. 1	..	1	1	..	
	Total, Nilgiris ..	..	..	87	..	..	2,825	2,738	..	
	Grand Total ..	..	..	16,680	..	..	10,613	..	6,067	

ANNUAL FORM No. 73-B.

Forest Department, Maâras, Northern Circle.

Return of stores, tools and plant on 1st April 1886.

Districts.	Description of stores, &c.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Direction ..	Surveying and other instruments.	8	95	14	174	..	..	
	Furniture	53	539	60	572	..	..	
	Total ..	61	634	74	746	112	..	
Ganjam ..	Bungalow, head-quarters.	1	1,350	1	1,350	..	..	Russellkonda.
	Bungalow, inspection ..	4	750	4	750	..	..	Surada.
	Inspection huts	12	585	12	585	..	..	
	Guard's sheds	3	20	3	20	..	..	
	Furniture	9	30	14	95	..	..	
	Tools	115	170	110	188	..	..	Five worn out.
	Surveying and other instruments.	8	126	10	128	..	..	
	Miscellaneous	1	8	1	8	..	..	
	Total ..	153	3,039	155	3,124	85	..	
Visagapatam.	Sheds	2	45	2	45	..	..	
	Tools	5	2	5	2	..	..	
	Surveying and other instruments.	5	95	7	95	..	..	
	Furniture	..	..	9	119	..	..	
	Total ..	12	142	23	261	119	..	
Godávari ..	Sheds	1	10	2	60	..	..	Old one tumbled down and the new one destroyed by fire..
	Surveying and other instruments.	7	40	7	40	..	..	
	Tools	..	..	1	5	..	..	
	Furniture	24	111	29	151	..	..	
	Miscellaneous	3	13	..	..	..	..	
	Total ..	35	174	39	256	82	..	
Kistna ..	Surveying and other instruments.	13	..	13	..	..	..	
	Tools	508	12	385	21	..	..	One-hundred and twenty-three worn out.
	Furniture	16	60	17	90	..	..	
	Total ..	537	72	415	111	39	..	
Nellore ..	Cash safes	4	195	4	195	..	..	
	Scales and weights, sets..	5	209	6	310	..	..	
	Furniture	75	440	99	363	..	..	
	Boxes	19	53	19	10	..	..	
	Tools	656	422	480	377	..	..	
	Surveying and other instruments.	15	80	16	153	..	..	
	Miscellaneous	16	13	16	8	..	..	
	Tramways	..	..	2	13,800	..	..	
	Boats	..	..	6	2,380	..	..	
	Total ..	790	1,412	648	17,599	16,187	..	
Cuddapah ..	Bungalow, inspection ..	4	15,650	4	15,650	..	..	Kodur, Sanipaya, Balapalle and Horsley-konda.
	Ranger's house	3	970	3	1,020	..	..	Kodur, Sidhout and Rajampet.
	Office house	1	200	1	200	..	..	Kodur.
	Sheds	31	596	58	960	..	..	
	Surveying and other instruments.	15	153	15	153	..	..	
	Tools	277	155	388	413	..	..	
	Furniture	45	306	59	580	..	..	
	Building materials ..	..	40	..	..	..	..	
	Total ..	376	18,070	528	18,976	906	..	

Return of stores, tools and plant, &c.—*continued.*

Districts.	Description of stores, &c.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Kurnool ..	Bungalow, head-quarters.	1	644	1	644	..	..	Value of Nandiyál bungalow site.
	Bungalow, inspection ..	19	4,747	19	7,447	..	..	Three incomplete.
	Ranger's houses ..	4	650	4	1,476	..	..	
	Sheds	14	465	14	1,065	..	..	One incomplete.
	Furniture	28	146	30	162	..	..	
	Tools	348	500	348	500	..	..	
	Surveying and other instruments.	14	206	16	206	..	..	
	Total ..	428	7,358	432	11,500	4,142	..	
Bellary ..	Ranger's house	..	..	1	460	..	..	
	Surveying and other instruments.	..	..	2	67	..	..	
	Furniture	12	140	13	141	..	..	
	Tools	55	28	57	29	..	..	
	Total ..	67	168	73	697	529	..	
Anantapur ..	Bungalow	..	..	1	800	..	..	
	Sheds	15	19	15	19	..	..	
	Surveying and other instruments.	17	74	18	75	..	..	
	Furniture	1	20	17	157	..	..	
	Cash safe, with pad-lock.	..	..	1	12	..	..	
	Tools	104	40	103	138	..	..	
	Total ..	137	153	155	1,201	1,048	..	
Nilgiris ..	Sheds	18	805	22	942	..	..	
	Surveying and other instruments.	2	60	11	69	..	..	
	Furniture	27	276	27	276	..	..	
	Tools	332	742	493	1,106	..	..	
	Elephants	2	3,000	2	3,000	..	..	
	Do. calf	..	..	1	500	..	..	
	Miscellaneous.							
	Chains of elephants ..	8	240	8	240	..	..	
	Total ..	389	5,123	564	6,133	1,010	..	
	Grand Total ..	2,935	36,345	3,106	60,604	24,259	..	

Annual Form No. 74.

Forest Department, Madras.

Statement of elephants in the Northern Circle during the year 1885-86.

Part I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
				Rs. A. P.	
Nilgiris ..	Lakshmi	Transferred from the Anamalais on the 30th January 1882.	April 1885	113 9 8	
	Chinna Lakshimi ..		May ,, ...	125 6 4	
			June ,, ...	120 0 0	
	Mabubakash ..	Born in January 1885.	July ,, ...	112 3 0	
			August ,, ...	121 9 0	
			September ,, ...	78 7 1	
			October ,, ...	86 9 2	
			November ,, ...	98 2 4	
			December ,, ...	132 11 1	
			January 1886	125 8 11	
			February ,, ...	110 13 5	
			March ,, ...	110 13 5	
			Total ..	1,335 13 5	

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
				RS. A. P.	
Nilgiris ..	Female elephant ..	Captured in the Sigur forests on the 4th November 1885.	November 1885	27 8 0	
			December ,, ...	48 8 4	
			January 1886	34 4 2	
	Male elephant ..	Captured in the Sigur forests on the 23rd November 1885.			
			Total ..	110 4 6	

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		How disposed of.
				RS. A. P.	
Nilgiris ..	Female elephant ..	Captured	....	110 4 6	Died on the 4th Dec. 1885.
	Male elephant ..	Do.			Died on the 3rd Feb. 1886.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue, dated 18th January 1887, Forest No. 19 :—

Read—the following letter from Lieutenant-Colonel I. CAMPBELL WALKER, Conservator of Forests, Southern Circle, to the Secretary to the Board of Revenue, dated Coimbatore, 28th July 1886, No. 937 :—

I have the honor to submit the annual administration report for the Southern Circle for the year 1885-86, together with the usual returns except form No. 16, and to request that the proof may be sent to me for correction.

Conservator's report with nineteen returns, Salem district map showing the range and sub charges, beats, &c., and preliminary working scheme for the Sholakarai Block, Bolampatti reserved forest.

2. Notwithstanding the Board's orders (No. $\frac{2709}{\text{Forest } 524}$, of 22nd September) enjoining care and punctuality in the submission of the district annual reports, I regret to have to state that not one single report was received on the due date (15th May) and that the last only reached the Madras office on the 9th June, whilst supplemental reports kept coming in until the 10th July.

3. The preparation of the returns for several districts displays a want of care and accuracy, the closing and opening figures not corresponding.

4. This is in some measure due to the late date on which the annual report for 1885-86 was communicated to Collectors and District Forest-officers. It was not printed with the Board's Proceedings reviewing it quoted above, nor even with the Government Order communicated by Proceedings, No. 215, Forest, of 28th April 1886. District Forest-officers were therefore unable to compare and verify their figures and note the points to which attention was drawn by the Conservator, the Board, and Government.

5. I would therefore suggest that at least twenty copies of the report and returns be in future sent to me with the Board's review for distribution to District Forest-officers with any necessary instructions.

ENCLOSURE.—Administration Report for 1885-86.

READ—the following letter from J. S. GAMBLE, Esq., Conservator of Forests, Northern Circle, to the Secretary to the Board of Revenue, dated Madras, 26th July 1886, No. 1019 :—

I have the honor to submit the annual report of forest operations for the Northern Circle for 1885-86, and to request the favor of your directing the proofs to be sent to me for correction at a very early date. I regret the delay in submission due to late receipt of district returns as recorded in the last paragraph of my report.

ENCLOSURE.—Administration Report for 1885-86.

Resolution—dated 18th January 1887, Forest No. 19.

The Board submit the Conservators' reports of Forest administration for the year 1885-86 to Government, with the usual review.

2. *General.*—The strength of the department in the year was 2 Conservators, 13 Deputy Conservators, 12 Assistant Conservators, 9 Sub-Assistant Conservators, 43 Rangers, 114 Foresters, and 642 Guards; the cost of this establishment and of the work that it did was Rs. 9,36,421, the revenue that it brought in was Rs. 11,98,600, and the net profit to Government was, therefore, Rs. 2,62,179 or 22 per cent. of the gross receipts; this present result, when it is considered how much of the profit of forest work can only be looked for in the future, and how much of its benefits are not to be appreciated in money at all, must be held satisfactory.

3. *Reservation.*—The main work of this year as of the last was the selection and reservation—in part as wholly reserved forests, and in part as partially reserved lands of various descriptions—of the land that is to form the permanent forest area of the Presidency. Such reservation is necessary before the trained forester can enter and take complete possession, and in this direction, therefore, it is satisfactory to note that 507½ square miles were made reserved forests in the year, that 748 square miles in the Southern Circle and 32 blocks in the Northern Circle were "proposed" for similar reservation, and that 2,212 square miles were made reserved lands; the following statement shows the work done both in each circle and as compared with last year; the figures of actual settlement are larger for the Southern Circle than for the Northern, but to the credit of the latter it must be remembered that large areas in Kurnool and Cuddapah only await final notification, and that the circle was only partially provided with special Forest Settlement-officers, without whom experience has shown that progress is but slow. The districts of Coimbatore, Madura, Tinnevelly, North Arcot and the Nílgiris appear to be the most forward in settlement.

Circles.	Area of reserved forests.		Area of reserved lands.		Area of leased and other forests.	
	On 31st March 1885.	On 31st March 1886.	On 31st March 1885.	On 31st March 1886.	On 31st March 1885.	On 31st March 1886.
	SQ. MLS.	SQ. MLS.				
Southern Circle	1,113	1,526	1,291	3,503	1,156	1,126
Northern „	7½	102	3,593	3,557	263	137

4. Village forests were selected on the Nílgiris and were in process of selection in Nellore and Cuddapah; in other districts, the provision of village forests was found to present difficulties, and proposals are, therefore, now before the Board, which, when eventually disposed of by Government, will probably furnish the villagers in other ways with the equivalent of the free privileges which they would expect to obtain from their village forests.

5. The selection of areas is now almost complete, and, allowing for a few additions, the extent shown in the statement below may, therefore, virtually be taken to be all that is ever likely to come under reservation, in this presidency, as forest; it will only remain, as settlement progresses, to transfer from the head of reserved lands to the head of reserved forests:—

—	Area of reserved forest.	Area of reserved lands.	Leased forests.	Other forests.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Southern Circle	1,526	3,503	...	1,126
Northern „	102	3,557	136½	...

6. *Fire-protection.*—In the protection of *special* areas, there was, as the subjoined statement shows, a considerable advance in the Southern Circle on last year; not only was more land taken up, but it was also better protected; 98 per cent. of the area

attempted was successful, the total expenditure on fire-protection from the commencement of operations up to date being Rs. 43,500 for the Southern Circle, of which one-fourth was spent in the year under report.

7. In the Northern Circle, on the other hand, 150 square miles, the protection of which had been attempted in the previous year, were given up, and, even so, the Conservator reports that the hot season of 1886 was the worst on record since his circle was formed; the total expenditure, up to date, in the Northern Circle has been Rs. 31,300, of which one-fifth was spent in the year under report, and 96 per cent. of the area attempted was successful; the cost per acre was in the year 3·8 pies for the Southern Circle, and 2·73 pies for the Northern Circle; and altogether up to date, 8·04 pies for the Southern Circle and 6·7 pies for the Northern Circle.

8. In both circles, fires in many instances are ascribed to incendiaries, notably in Cuddapah and Wynaad; protective measures would appear to be most forward in Cuddapah, Bellary, the Nílgiris and Anantapur in the Northern Circle, and in North Arcot, South Arcot, and Salem in the Southern Circle. The Board would be glad to have some assurance that such figures as those, for instance, for Ganjam are correct:—.

Circles.	Area attempted.		Fires.		Area actually protected	
	1884-85.	1885-86.	1884-85.	1885-86.	1884-85.	1885-86.
	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.
Southern Circle	744·8	906·0	14·0	15·0	730·8	891·0
Northern ,, ...	720·5	577·0	23·6	23·0	696·9	554·0

9. Neither Conservator pretends to be able to furnish figures of any accuracy showing the areas that escape fire, with only *general* measures of protection; the Conservator, Southern Circle, gives some figures, but remarks that they are the same as last year's, and the Conservator, Northern Circle, gives none. The Board themselves would be disposed to deprecate the attention of Forest-officers being diverted from the absolute necessity of special measures, it can seldom be that areas even for a time escape fire without such special measures, and if they do, the fire, when it comes, is only the more destructive for the delay.

10. *Demarcation and fencing.*—In the Southern Circle 193 miles of lines were cleared round *reserved forests* at a cost of Rs. 3,317; these seem to have ranged from the permanent stone wall, 3 feet high and $1\frac{1}{2}$ feet broad, built at a cost of Rs. 500 per mile, round the Annamalai reserved forest in South Arcot, to the mere erection of wooden posts, with white-washed chatties on the top, erected at a cost of Rs. 4 per mile, round the Vellamundi reserved forest in North Coimbatore; the average cost on the whole was Rs. 17 a mile; as the Conservator points out, so much depends on the configuration of the ground and the nature of the undergrowth that a fair comparison is hardly possible; work was only carried on in six forest charges.

11. In the Northern Circle, Rs. 13,060 were spent on demarcation, but the exact distance demarcated is not given; in Cuddapah, 119 miles were roughly cleared at a cost of Rs. 19 per mile; in Kurnool, 4 miles of new line at the foot of the Nallamalai were cut and 57 miles done in previous years were re-cleared of the heavy undergrowth which springs up afresh each year in the rains; in the Nílgiris, 450 miles, at a cost of Rs. 3,858 were done, though not so thoroughly as the Conservator would have wished; in Bellary, $3\frac{1}{4}$ miles of the Sandur boundary was made into a permanent cart-track at a cost of Rs. 80 per mile; and in Anantapur, 54 miles of demarcation was done at a cost of Rs. 7 a mile; on the whole the work seems to have been well pushed on in the Northern Circle, though none was done in Kistna and Nellore.

12. On the demarcation of *reserved lands* no money was spent in the Northern Circle; but in the Southern Circle, 600 miles of boundary lines were cleared and demarcated in a preliminary manner at a cost of Rs. 2,000. The average cost per mile was Rs. $3\frac{1}{3}$, and for this stout 9 feet poles, tarred at the bottom, surrounded by 3 feet cairns of stones and surmounted with white-washed chatties, were erected; the chief work was done in Salem and North Coimbatore.

13. In this connection, it should be mentioned that Mr. Peet, Deputy Conservator, was deputed to represent the Madras Government in the settlement of a disputed part of the Travancore-Coimbatore boundary, and that the result of his careful work has since been that his contention was accepted by the arbitrator and that the Madras Government has been the gainer of a considerable area of good cardamom country; for this, Mr. Peet has already received the thanks of Government.

14. *Roads and buildings.*—On roads Rs. 6,988 were spent in the Southern Circle and Rs. 2,491 in the Northern Circle; in the former the money was equally divided between new works and repairs, the most important new works being portions of ghât roads in Tinnevelly and 1½ miles of tramway in North Arcot, and the chief repairs being to roads on the Anamalai in South Coimbatore; in the latter, the money was chiefly spent in the repair of old roads on the Nílgiris, on 2½ miles of new hill road in Cuddapah, and on the clearing of 73½ miles of former cart-tracks in Kurnool. Wherever possible, the same line has been made to serve the threefold purpose of a fire line, a demarcation line, and a road.

15. The expenditure on buildings was in the Southern Circle Rs. 14,071, and in the Northern Circle Rs. 8,965; the chief new works done in the Southern Circle were the construction of a range head-quarters at Begúr in the Wynaad-Pálghat range, a bungalow and ranger's house in course of construction at Mountstuart in South Coimbatore, and rest-houses and guards' and tannadars' huts in Madura, South Coimbatore and South Arcot. In the Northern Circle thirteen rest-houses in the interior of the Nallamalais were completed and seven more were almost completed; three rangers' houses were also built at the foot of the hills and guards' and tannadars' huts were erected; in Bellary a range-house was built at Sandur, and in Anantapur the head quarters bungalow was nearly finished; repairs to existing buildings were also carried on on the Nílgiris, in Cuddapah and in Ganjam. The Nandyál head-quarters bungalow had to be postponed owing to the reduction order, and the Forest-office at Waddagudem, in the Godávari district, was burnt down, it is supposed, by incendiaries.

16. In the Nellore district, in connection with the Sríharikót departmental work, four canal boats were built during the year, and 2¼ miles of tramway, purchased from Messrs. Fowler and Co., were laid down; the result was a considerable saving in the cost of working, more especially in the case of the tramway, and the Conservator hopes that before long it may be found possible to lay down similar tramway lines elsewhere.

17. *Surveys.*—But little survey work was done in the year by Forest-officers, the work being limited to the running of a chain and compass survey round the exterior lines of forest blocks in certain districts; in the Southern Circle, such work was done in North Arcot, Salem, South Coimbatore and South Canara; in the Northern Circle, advantage was taken of existing village and taluk maps, and no special work was done. The Revenue Survey department worked on the lower Palnis in Madura, on the banks of the Cauvery and Coleroon in Trichinopoly, and on the Wálayár reserved forest in Pálghat. The total expenditure on surveys was Rs. 1,068 in the Southern Circle and Rs. 39 in the Northern Circle; arrangements have lately been made under the orders of Government, which will, it is hoped, systematize and facilitate this important work.

18. *Exotics.*—Mahogany may almost be said to have advanced beyond the experimental stage; healthy and vigorous germination is reported from both circles, and from districts so dissimilar as Madura, Bangalore, and Nilambúr; at the last-named place, trees 6½ years old, average 20 feet in height and 15 inches in circumference at base; the Cerea rubbers also appear to have established themselves, so far as mere growth is concerned; they have yet, however, to prove their milk-producing capabilities. No eucalypts appear to have been discovered suitable for growth on the plains, though E. *citriodora* is reported to be doing fairly at moderate heights; young Ipecacuanha plants are said to be doing well at Nilambúr, as also is the Giant bamboo. Conifers and Maples from Northern India are coming up on the Nílgiris, and Manilla hemp and the edible date promise well in the Southern Circle; the introduction of the latter has been taken up more vigorously in the current year.

19. Seeds of the South African sneeze wood, sent through the kindness of a former Indian officer, Mr. Hutchins, failed to germinate, but seedlings of the other South African woods, assegai wood, yellow wood and outeniqua wood, were successfully raised.

20. *Artificial reproduction.*—In the Southern Circle, the area of *plantations* was acres 12,233, a decrease of 90 acres on last year's figures; 310 acres of new planting were actually added, but this was more than counterbalanced by the transfer of a considerable area of "teri" (sandy waste) in Tinnevelly to the heading "cultural operations"; the cost is shown as Rs. 4,70,246 less than in last year, but of this over 4½ lakhs represents a mere paper adjustment of expenditure on the Nilambúr plantations. The largest areas are in Trichinopoly, Nilambúr, North Arcot and South Arcot; the padugai plantations in the first-named district have proved successful, and it is proposed to extend them both there and in Tanjore; the receipts, in fact, from "plantations" generally are said to more than justify expectations. The Conservator reports, in connection with Nilambúr, what, it is believed, is the case all over the Presidency, viz., that the chief demand is for small-sized saplings and poles, rather than for larger timber, which requires to be sawn; and the fact should not be lost sight of in connection with the drawing up of working plans.

21. The area in the Northern Circle was 6,426 acres against 6,624 acres in the previous year and the cost up to date Rs. 4,05,122 against Rs. 3,90,568; 90 acres of useless land in Kistna and 44 acres in Nellore were abandoned and 331 acres in Anantapur were excluded and made a reserved forest; on the other hand, 80 acres of new plantation were added in Nellore and 47 acres on the Nílgiris, and an experimental garden of 46 acres was formed under the Collector's supervision at Masulipatam. The districts with the largest "plantation" figures in the Northern Circle are Nellore, Cuddapah and the Nílgiris; in the first, the growth is mainly casuarinas, and the District Forest-officer, Mr. Vincent, provides an interesting record of the cost and yield of each block up to date; from this statement, the work of late years promises to be very much cheaper than that of former years, and the growth is also reported to be better: in Cuddapah, the red sander trees are reported to give a mean annual radial increment of ·06 inches only, but the Conservator hopes that the rate of growth will increase with thinning: natural grown seedlings are reported to be plentiful, and efforts are being made to utilize these in restocking blanks: a considerable area was also planted in Cuddapah with palmyra seeds, mainly on the sandy banks of the river Pennér. On the Nílgiris, bluegums, conifers and maples were planted out in large numbers, and mostly with success; a large number of the cryptomerias, however, were killed off by drought. The restocking of sholas with indigenous trees is also reported to promise well.

22. The chief *cultural operation* in the Southern Circle was the reclamation of 110 acres of "teri" or sandy waste, in Tinnevelly, on which 75,000 palmyra seeds were put down, and 210 measures of seed of *Acacia planifrons* dibbled in: in the Northern Circle a certain amount of work was done in Cuddapah and Nellore, in the way of miscellaneous sowings of babul, dirisana and margosa in the natural forest and in prickly-pear; successful broadcast sowings were also made—within fenced areas, it is presumed—of tangedu: the totals are entered for each circle as follows: Southern Circle 557 acres, 868 rupees; Northern Circle 486 acres, 1,111 rupees.

23. 13,161 acres are under *topes* in the Northern Circle and 17,599 acres in the Southern Circle; the expenditure on them was Rs. 3,039 in the Northern Circle and Rs. 9,040 in the Southern Circle: no new topes appear to have been planted; one tope in Cuddapah was bought by the Local Fund Board who built a chattram in it; this course might possibly be followed in other cases of roadside topes and the money so liberated spent in the formation of new ones, for the creation of which the next generation must necessarily be dependent on this.

24. Neither Conservator pretends to be able to give accurate figures of area or cost under the head of "plantations and topes," but the figures are gradually being checked, and in a few years it is hoped that they will be correct.

25. *Natural reproduction.*—In this important matter, which may conveniently be noticed here, it is satisfactory to note that both Conservators report favorably of the

effects of even partial protection on new growth, while in regard to more thorough protection, the Conservator, Southern Circle, "vouches for marked improvement." Of the more valuable woods, red sanders is reported both to coppice vigorously and to seed profusely, the seed germinating well: the same is the case with teak, though the teak seedlings are said to die down after beginning well; bluegum also on the Nílgiris reproduces naturally and freely both from seed and from coppice; the reproductive powers of iron-wood were noticed last year: casuarina coppice, on the other hand, does not appear to be a success. It would be interesting to learn how the better class of trees fares in the struggle for existence as compared with the less valuable kinds.

26. A dense growth of coarse grass is reported in some cases to be the first result of protection, and the Conservator, Southern Circle, proposes to keep this down partly by grazing and partly by cutting; in the latter connection the possibility of being able to cut the grass when green and store it in silos should be considered, as a source of valuable fodder-supply might thus be developed, while at the same time by the removal of the grass, while green, the risk of its being burnt later on in the year when dry would be minimised. It should be reported in next year's report how the system of proposed grazing, even though limited, affects reproduction; it is a matter that greatly affects the preparation of working plans, and every practical instance bearing on it should be noted.

27. The Conservator, Southern Circle, reports that the villagers are beginning to realize the advantages of protection, and that they have come forward in some cases to ask for it: so desirable a feeling should be dealt with with tact and discretion.

28. It is noted that no mention is made in this year's reports of pollarding: where grazing requirements are heavy, and the local demand is for small timber only, experiments in this direction might well be made. The reproduction on unprotected areas is not reported on.

29. *Management.*—The forests are worked mainly on the seigniorage system, a system which is cheap and easy, and in the present stage of forest settlement a necessity, but a system also which is wasteful and unintelligent, and by which fire-protection is much impeded: it is satisfactory, therefore, to note an increase in the number of forests taken under departmental management, or worked under conditions similar to those of departmental management, on the contract system. Final working plans have been so far drawn up for only two small blocks in the Coimbatore district,—one of those plans accompanies the Conservator's report,—but preliminary schemes have been drawn up in the Northern Circle for the Sandúr leased forests, for the Ballipalli forests in Cuddapah, for the casuarina plantations in Nellore, for the Nílgiris and for the Mudumalai leased forest, and in the Southern Circle for Nilambúr, for the Tekadi leased forest, and for portions of South Coimbatore, South Canara and North and South Arcot; the collection of statistics for the preparation of working plans for other forests is also in hand, and the annual plans of operations, which answer somewhat the same purpose, are generally well adhered to.

30. Free village requirements were met, partially by the grant of free permits, as in South Arcot, Vizagapatam, and Kurnool, partially by the formation of village forests, as on the Nílgiris, and in Nellore and the upland taluks of Cuddapah, and partially by the free use of unreserved waste, as in Bellary; as a general rule, the method most in accordance with the previous custom of the district and with local requirements was adopted, but the matter is still in an unsettled state and will require further elaboration and settlement, as the reserved forests close in. The materials taken under free permit were mainly building materials for burnt or ruined houses; in South Arcot, for instance, 19,200 cubic feet of timber were taken to repair the ravages of the floods of 1884.

31. The collection of *drift* is of importance only in Godávari: there some 16,000 cubic feet of timber, most of it teak, was collected and sold for Rs. 7,139.

32. *Grazing.*—This important subject has hardly been dealt with by Conservators in the detail that it merits: its satisfactory disposal lies at the bottom of all forest conservancy in this presidency, and the problem of combining the provision of pasturage with the production of timber is one that sooner or later must be solved: it is obvious, in view of the large areas that are being placed under the trained management of the

Forest Department, that the former is almost as important an item of "forest conservancy" as the latter, and the Board would be glad to see the question of providing it fairly faced: on it, in fact, hinge the working plans of the future.

33. So far as payment for grazing is concerned, the general policy is, that sufficient areas, whether village forest or unreserved waste, should be left out for the free use of such a proportion of the cattle as may be entitled to free grazing, and that all other cattle should be driven to the reserved areas and should pay grazing fees which, beginning low, should only gradually rise to the maximum; but how far this policy has been adhered to or what proportion of the maximum rates has so far been imposed, it is not possible to tell from the figures given in the report; all that is clear is that there are very great differences in different districts, partly, no doubt, due to actual difference and in the natural conditions of the districts themselves, but partly also, it is evident, due to a want of policy: in the Northern Circle, for instance, Kistna produced Rs. 34,000, Bellary 2,200, Kurnool 1,500, Godávari 1,100, and the rest virtually nothing: in the Southern Circle, Trichinopoly produced Rs. 2,100, South Coimbatore 2,000, North Coimbatore Rs. 1,400, and Madura 1,300; in the cases of Kistna and Kurnool, the fees have been imposed for many years; in other districts, they are mostly only recently imposed. The Bellary reserves were thrown open to cattle in the year on account of the drought, and proved of great value.

34. *Police.*—The following statement shows the number of prosecutions, undertaken in the year, as compared with the figures of the previous year; it will be seen that there is a small increase, but that, on the other hand, the percentage of convictions was smaller; the figures, however, for the Southern Circle are misleading on account of the inclusion of "compounded" cases as acquittals: the Conservator promises to separate them properly next year. In the Northern Circle the percentage of convictions was over 80 in the Nílgiris, Vizagapatam, Cuddapah, Godávari and Kurnool: of 2,002 cases in both circles, 1,737 were cases of unauthorized felling and 51 cases of firing: cases of cattle-trespass and encroachments on reserved lands are reported to be common in the Southern Circle:—

Year.	Southern Circle.		Northern Circle.	
	Number of cases for disposal.	Number of cases disposed of.	Number of cases for disposal.	Number of cases disposed of.
1884-85	1,031	823	846	767
1885-86	1,343	1,252	926	860

35. The assistance of the Revenue officers is acknowledged in Cuddapah and Kurnool, and the want of it is complained of in Wynaad: complaints by the public against the Forest Department appear to have been scarce, or, at least, are not noticed.

36. *Yield and working.*—The figures under this head have been carefully abstracted in chapter V of each of the Conservators' reports, and the Board need, therefore, only notice them briefly. The yield of each circle is shown below under I, Removals by departmental agency; II, Removals by purchasers; and III, Free grants:—

——	Timber.				Fuel.	Bamboos.	Minor produce.
	C. FT.	TONS.	LB.	NO.	TONS.	NO.	TONS.
I. Southern Circle ..	170,778	298	1,649	51,504	10,133	64,228	68
Northern ,, ..	..	1,737	..	..	15,900	Tons 92	72
II. Southern ,, ..	854,302	...	..	1,126	132,580	,, 25,746 & Nos. 67,865	3,598
Northern ,, ..	..	3,999	..	..	12,392	Tons 559	69
		10					
		4,009					
III. Southern ,, ..	24,342	..	..	..	5	Tons 65	..
Northern ,, ..	C. loads 16	..	..	..	C. loads 240	C. loads 389	..

Of the total amount so collected, 3,513 tons of timber, 21,990 tons of fuel, 86,287 bamboos and 379 tons of minor produce were disposed of, realising Rs. 2,01,994 in the Southern Circle and Rs. 1,60,851 in the Northern Circle.

37. Under "departmental agency" the yield of timber was mainly from Nilambúr, Cuddapah, Ganjam and Wynaad-Pálghat; fuel came from Nellore, Nílgiris, Trichinopoly and North Arcot, bamboos from Nilambúr and Cuddapah, and minor produce from South Canara and Nellore; a considerable quantity of fuel was supplied to Railway Companies and fair sales of logs were made from the forests and from depôts to private agencies, but issues to the Public Works Department appear to have virtually ceased altogether; the Conservator, Northern Circle, hopes before long to substitute sales from the forests for all sales from depôts outside, as effecting a saving of time and labor; too near an approach to the seigniorage system should, however, be guarded against. The collection of red sanders and sandalwood roots continued profitable. The sales of Government fuel on the Nílgiris are reported to have been placed during the year on the same footing as sales of private fuel, that is to say, the petty retail sales were given up and sales of large quantities to middlemen by tender were substituted in their place: the Board, however, would like to have had a more detailed comparison of actual rates, not only for the Nílgiris, but also for Madras and elsewhere where Government and private sales compete.

38. To the head of "removals by purchasers," under which it must be remembered comes a large part of the fuel supplied to middlemen contractors for railway purposes, Cuddapah contributed Rs. 1,26,000, Salem 1,09,000, North Arcot 85,000, and Kurnool 71,000.

39. *Financial results.*—The receipts and charges for the year are compared below with the figures of the previous year:—

—		Receipts.	Charges.		Surplus.
			Works.	Establishment.	
		RS.	RS.	RS.	RS.
1884-85 ...	Southern Circle	6,25,492	2,09,344	2,87,579	1,28,569
	Northern „	5,37,197	1,86,080	2,01,418	1,49,699
1885-86 ...	Southern „	6,52,318	2,34,006	3,00,608	1,17,704
	Northern „	5,46,282	1,88,920	2,12,887	1,44,475

and the percentages of the year are shown below:—

	Per cent. of establishment to total expenditure.	Per cent. of surplus to gross receipts.
Southern Circle	56·23	18·04
Northern „	52·98	26·63

40. As the Conservators point out, a comparatively large outlay is necessary at the commencement of work and too large a surplus should not be looked for: form No. 64 shows that the districts which produced that surplus were, in the Southern Circle, North Arcot, Salem, Nilambúr and South Canara; and, in the Northern Circle, Cuddapah, Kurnool, Godávari and Kistna.

41. The Conservator, Southern Circle, adds an interesting abstract showing the relative cost of departmental working and of working under the permit system: the charges of the former were 78 per cent. of receipts and of the latter 54 per cent., the latter being, therefore, much the cheaper on paper, though probably, as the Conservator rightly points out, the dearer in fact, when the waste and mismanagement almost inseparable from it are also considered.

42. *Inspection, &c.*—The Conservator, Southern Circle, visited all the districts in his circle, except Tanjore, during the year: the Conservator, Northern Circle, visited

the districts of Ganjam, Cuddapah, Kurnool, Bellary and the Nilgiris; for the three cold-weather months, Mr. Peet acted for Mr. Gamble, and spent most of the time in an exhaustive tour through Kurnool.

43. The following District Forest-officers merit mention for the number of days spent by them in camp, though all District Forest-officers are reported to have travelled well:—

Names of officers.	Number of days.
Mr H. A. Gass	250
„ R. W. Morgan	249
„ Vincent	228
„ Sim	228
„ Porter	217
„ Lodge	209
„ Cherry	194
„ Higgens	189
„ Brasier	182

44. Mr. Boileau, Deputy Conservator in charge of Kistna, died in the year and Mr. Sim, Duputy Conservator in charge of Kurnool, was retransferred to the Revenue Department: Messrs. Wolfe-Murray and Castlestuart Stuart, C.S., and Mr. Pinto were Special Forest Settlement-officers, the latter only quite at the close of the year: Mr. Homfray, Assistant Conservator, had charge of the Central office of Accounts.

45. The Conservators name Messrs. Higgens, Vincent, Stanbrough, Lushington, Peake and Lodge, but all officers appear to have worked hard, and the results, in the shape of increased efficiency in forest administration, may, the Board think, be considered highly creditable both to them and to the Conservators: the latter, it must be remembered, had to struggle against the effects of the large reduction in expenditure which was ordered early in the year.

46. The Board regret the delay in the submission of the present report: it is due mainly to the length of time which the printing and subsequent correction of the detailed code forms, embodied in the report, require.

(True Copies and Extract.)

(Signed) H. A. SIM,
Acting Sub-Secretary.

To the Secretary to Government, Revenue Department, with two reports.
„ Conservator of Forests, Southern Circle.
„ „ Northern „
To all Collectors.
„ the Examiner of Forest Accounts.

Order—dated 5th March 1887, No. 235, Revenue.

Forest, No. 31.

With their Proceedings read above, the Board of Revenue submit the Annual Reports of Forest Administration, Northern and Southern Circles, for the year 1885-86.

It is observed that these reports were respectively despatched by the Conservators on the 26th and 28th of July last, while the resolution of the Board of Revenue reviewing them did not reach Government until the 29th ultimo. The delay of six months is said to be due to the length of time required for the printing and subsequent correction of the detailed code forms, embodied in the report. While willing to make every allowance for the delays so caused, His Excellency the Governor in Council cannot but think that greater expedition might have been used and he regrets that he must regard the explanation offered as being, by no means, satisfactory. In future if similar delay is anticipated a copy of the text of the report should be sent in advance.

It is gratifying to note that, in deference to the remarks made in the review for 1884-85, the Conservators of both circles have found themselves able to curtail their reports to a material extent, but Government consider that the Conservator,

Southern Circle, might do much to abridge future reports by omitting from them the numerous abstracts of appendices given in the present instance. In most cases it would suffice if he showed in the body of the report totals in lieu of particulars of districts.

2. *Reservation.*—The following tabular statement exhibits, for each circle, the work of reservation done during the year under review, the different classes of reserves being separately shown :—

—	Southern circle.			Northern circle.			Total.		
	Up to March 31st 1885.	Up to March 31st 1886.	Difference.	Up to March 31st 1885.	Up to March 31st 1886.	Difference.	Up to March 31st 1885.	Up to March 31st 1886.	Difference.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved Forest under Act V of 1882	1,113	1,526	+ 413	8	102	+ 94	1,121	1,628	+ 507
Reserved Forest under previous orders, &c.	1,040	307	— 733	819	802	— 17	1,859	1,109	— 750
Leased forests	49	49	..	262	136	— 126	311	185	— 126
Reserved lands	1,291	3,503	+ 2,212	3,593	3,557	— 36	4,884	7,060	+ 2,176
Other forests	1,156	1,126	— 30	..	..	..	1,156	1,126	— 30
Total ..	4,649	6,511	+ 1,862	4,682	4,597	— 85	9,331	11,108	+ 1,777

It will be seen from the above that the extent of forest reserved under Act V of 1882 amounted on March 31st, 1886, to 1,628 square miles, of which 507 square miles were added during the past official year. The small proportion of the work done in this direction in the Northern Circle is said to have been due to a lack of special Forest Settlement officers. This defect has, however, now been remedied, and His Excellency the Governor in Council trusts that better results in the future will be the consequence. The Board of Revenue point out, in this connection, that several large blocks in the Northern Circle were practically settled at the end of the year, the issue of final notifications under section 16 of the Act being the only requisite necessary to complete the work.

During the year, 748 square miles were proposed for reservation, under section 4 of the Act, in the Southern Circle, and 942 square miles in the Northern. The total area under settlement, *i.e.*, the area proposed under section 4 of the Forest Act, regarding which notifications under section 16 had not been issued, amounted to 1,619 square miles in the Southern Circle. The Conservator, Northern Circle, does not give the figures under this head, but merely refers to his previous reports where lists of blocks, "proposed or reserved forests," are given, without any information as to area. His attention will be directed to paragraph 6 of letter of the Government of India, No. 487, Forest, dated 6th June 1886, communicated with G.Os., Nos. 542, 542A, Revenue, dated 1st July 1886, and in future reports this point should be carefully attended to. From the figures given in paragraph 6 of the report of the Southern Circle, it is observed that the increase in forests, reserved under the Act, has been, for the most part, effected by transfers thereto of areas regarded as reserved, prior to the passing of Act V of 1882. No information on this point is afforded for the Northern Circle.

2,212 square miles were added to "reserved lands" in the Southern Circle, during the year; of which 1,542 square miles represent new areas brought under protection. In the Northern Circle, the area under this head remained almost unchanged. In paragraph 19 of his report, Mr. Gamble explains that, until the reserved forests are settled and such village forests as can be made available are also set aside, it will not be possible to define very accurately "reserved lands." Government do not understand why, if in the Southern Circle it has been possible to select and set aside a large area as reserved lands, similar work could not have been done in the Northern Circle also. They would be glad of a more detailed explanation of the further remark that in the Northern Circars there need be no necessity for constituting many, if any, reserved lands.

Village Forests.—Although the importance of the selection of village forests was emphasized in the review of forest administration for 1884-85, very little seems to have been done in this respect, the work being confined to the Nílgiris, Cuddapah and Nellore. Government have, very recently, received the proposals referred to in paragraph 4 of the Board's Proceedings, and these will be disposed of in due course. As they advocate material alteration in the policy of Government with regard to the management of forest matters, they appear, to call for very careful consideration.

The total area under the control of the Forest Department amounted, at the close of the year, to 11,108 square miles; it is improbable that this area will be largely increased. Much, however, remains to be done in the way of transfers from one head of reserves to another. His Excellency the Governor in Council considers that, in future reports, illustrated maps, showing the various kinds of "reserves" and the progress which had been made in their settlement up to date, might be used with much advantage. In this way the information asked for by the Government of India, in their letter quoted above, will best be furnished.

3. *Demarcation.*—No information as to the area demarcated is furnished by either Conservator. In the Southern Circle, 193 miles of lines were cleared round reserved forests at a cost of Rs. 3,317. For the Northern Circle, the mileage of the demarcation lines is not given. Considerable progress, however, seems to have been made in the work, as 450 miles were cleared in the Nílgiris and 119 miles in Cuddapah. The cost was 13,060. Rupees 2,000 were spent in the Southern Circle in preliminary demarcation of "reserved lands," the length of boundary marked being 600 miles. The total cost incurred under demarcation amounted to Rs. 18,377. Both Conservators point out that there can be no uniformity in the rates, as the cost depends so much on the method of demarcation and the nature of the ground and of the jungle and undergrowth to be encountered.

4. *Survey.*—The little work done in this respect was confined to the Southern Circle. The great importance of Forest surveys was not, however, lost sight of, and Government had under consideration during the year, proposals of the Conservators for future operations. It has since been arranged with the Government of India that the Forest surveys in the southern and western districts should be undertaken by the Topographical Survey of India. It having, very recently, been decided that the Revenue Survey is not to be called upon to do work for other departments, No. I Party cannot now take up the survey of the reserved forests in Vizagapatam and Ganjam, and special arrangements, which should have the early attention of the Conservator and Board of Revenue, will be requisite as regards those districts.

5. *Fire Protection.*—The protection of 1,483 square miles of forest was attempted during the year and successful results were attained with regard to 1,445 square miles of this area. The corresponding figures for 1884-85 were 1,465 and 1,426 square miles. The cost in the Southern Circle was Rs. 12-9-0 per square mile, protected for 9½ months, beginning with 15th June 1885, as against Rs. 15-6-0 for 12 months of 1884-85. In the Northern Circle, the cost per mile protected is given for the year and amounted to Rs. 9-1-0 as against Rs. 15-6-0 for 1884-85. Orders have been issued that, in future reports, the statistics of fire protection should be given for the official year. In the Southern Circle, a larger area than in the northern was attempted, with a higher percentage of success. In the Northern Circle, on the other hand, although 143 square miles attempted in the previous year were abandoned, the results were less favorable. This is ascribed by the Conservator to the peculiar season and to incendiary fires.

The results were, on the whole, satisfactory, but it is to be regretted that a wider area was not treated. There is, however, much force in the remark of the Conservator, Northern Circle, that until the reserved forests are settled, demarcated and finally set apart, much progress in fire protection is impossible. For the present, it will probably be advisable, in most districts, to concentrate attention on a few blocks of forest, taking care that the danger of fire therein is, as far as possible, minimised. Both Conservators profess themselves unable to give any reliable information as to the areas which escape fire naturally, and the Board of Revenue, in this connection, deprecate the attention of forest officers being diverted from the absolute necessity of special measures; while concurring with this remark, Government are unable to understand why the mere noting, by forest officers, of the unprotected areas which

escape fire, should have any such effect. The matter is one to which importance is attached by the Government of India, and His Excellency the Governor in Council trusts that it will not be lost sight of.

6. *Grazing.*—Government are fully alive to the importance of this subject, which has, of late, been frequently under their consideration. Maximum rates for grazing fees have been fixed for "reserved lands" throughout the Presidency and it is under contemplation to adopt similar rates for the reserved forests. The question is closely connected with the formation of village forests and until these are set apart, it will be difficult to adopt any uniform policy. The general principles on which the subject has been dealt with, are described in paragraph 33 of the Board's resolution, but the requirements of each district in this respect differ and call for separate consideration. It is now generally conceded that light grazing, under proper restrictions, is really beneficial to forests, and as the Conservator, Southern Circle, puts it, there seems to be no reason why, with the exercise of care and judgment, the operations of the Forest Department should not, eventually, conduce as much to an increased supply of good and cheap pasturage, as of good and cheap timber, firewood and other forest produce.

7. *Prosecutions.*—The following statement shows the number and results of the prosecutions instituted as compared with the previous year:—

Division.	Year.	Number of cases for disposal.	Disposed of			Percentage of column 4 to column 6.
			Convicted.	Acquitted.	Total.	
1	2	3	4	5	6	7
Southern	1884-85	1,031	513	310	823	62·0
	1885-86	1,343	645	607	1,252	51·5
Northern	1884-85	845	602	165	767	78·0
	1885-86	926	635	225	860	73·8

There was an increase in the number of prosecutions in both circles, while the percentage of convictions has diminished. As pointed out by the Board of Revenue, the figures for the Southern Circle are misleading, as cases compounded, under section 55 of the Forest Act, have been shown as acquittals. It would appear from the Conservator's report that such cases were numerous and that, if they are excluded from the list of those disposed of, the percentage of convictions amounts to 75. The results of the prosecutions seem to warrant the belief that complaints are, very generally speaking, not laid, save on good grounds.

8. *Roads and Buildings.*—Rupees 9,479 were spent on roads and bridges as against Rs. 18,767 in 1884-85, the decrease being due to reductions in expenditure ordered by Government in consequence of financial pressure.

In the Southern Circle, $1\frac{1}{2}$ miles of tramway line were laid in South Arcot, while in the Nellore district of the Northern Circle, $2\frac{1}{4}$ miles were opened and utilized for the conveyance of casuarina fuel. The result has, apparently, been so far very satisfactory.

On buildings, the expenditure amounted to Rs. 23,036, as against Rs. 28,445 in 1884-85.

9. *Natural Reproduction.*—In both circles, the effect of protection has been found favorable to natural reproduction. This has been more marked where protection was thorough. The Conservator of the Southern Circle, however, notices the exception afforded by the forests of the Anaimalai Hills, where the abundant growth of coarse elephant grass, the first consequence of the exclusion of cattle, has choked all other young vegetation. The Conservator proposes to remedy this by light grazing, and the Board of Revenue point out that the grass might be cut and utilized for the ensilage experiments which are now being conducted. But a limited area, however, could be dealt with in this way, as the quantity of grass required for filling the small number of silos to be made would be comparatively insignificant. The proper and more effectual mode of dealing with the difficulty is, no doubt, that suggested by Lieutenant-Colonel Walker. It is gratifying to learn from the report of the Conservator, Southern Circle, that the villagers in Salem and Trichinopoly are beginning to appreciate the

advantages of protection. Government trust that, when the administration of the Forest Department is more fully matured, this feeling may become more widespread.

10. *Artificial Reproduction.*—The area under regular plantations is shown below :—

	On March 31st, 1886.	On March 31st, 1885.
Southern Circle	12,233	12,322
Northern „	6,426	6,624
Total ...	18,659	18,946

The apparent decrease in the Southern Circle was mainly due to the transfer of a considerable extent of sandy waste in Tinnevelly from the head "plantations" to "cultural operations." There was, really, an actual addition of 310 acres owing to new planting. In the Northern Circle, 465 acres were abandoned as plantations and included in reserved forests. Some fresh planting was done in Nellore, Cuddapah and the Nílgiris.

The area embraced by cultural operations was—

	Acres.	Cost. Rs.
Northern Circle	486	1,111
Southern „	557	868
Total ...	1,043	1,979

The principal work done was the planting of seeds of palmyra and *Acacia planifrons*, and the miscellaneous sowing, in natural forest, of babul, dirisana and margosa. The remarks of the District Forest-officer, Nellore, with regard to coppicing casuarina, to be found at paragraph 54 of the report of the Conservator of Northern Circle, are interesting and will, no doubt, be of value to growers of this tree.

The areas under topes are given as—

	Acres.	Cost during the year. Rs.
Northern Circle	13,161	3,039
Southern „	17,599	9,040
Total ...	30,760	12,079

Both Conservators state that they are unable to afford reliable figures as to either the area or cost, up to date, of topes or plantations, as the statistics of the old Jungle Conservancy Department were, for the most part, entirely erroneous. The Board of Revenue mention, however, that the figures are being gradually checked, and that in a few years accurate information will be secured.

11. *Exotics.*—Government have perused, with interest, the reports of the Conservators as to the growth of the various exotics with which experiment was made. The most marked success has occurred in the case of the mahogany tree, which seems to be doing well in both circles. The Ceara rubbers also appear to have become thoroughly established. Ipecacuanha plants are reported to be in a promising condition at Nilambúr, while Maples and Conifers are thriving on the Nílgiris. The edible date (*Phœnix dactylifera*) did well in the Southern Circle and steps have been taken during the past year to propagate this valuable tree as extensively as possible.

12. *Yield and working of Forests.*—The reports of both Conservators on this subject are very full. The receipts realized by the sale of timber and other produce removed by Government agency during the year amounted to—

	1884-85. Rs.	1885-86. Rs.
Northern Circle	1,65,272	1,55,232
Southern „	2,13,913	1,97,195

The receipts realized by sale of timber, &c., removed by purchasers, amounted to—

	1884-85. Rs.	1885-86. Rs.
Northern Circle	3,56,289	3,68,855
Southern „	3,91,684	4,38,950

There has been a small decrease in both circles in receipts on account of removals of timber by departmental agency. The receipts for removals by purchasers have, on the other hand, considerably increased. The Board of Revenue point out certain objections to the removal of forest produce under the seigniorage or permit system. These are undoubted, but the system has the advantage of being indisputably cheap and, until forest settlement has further advanced and working plans have been matured, it cannot be dispensed with.

19,200 cubic feet of timber were granted to ryots for the repair of houses damaged, or destroyed, by floods in South Arcot. Free permits were, also, issued in several other districts, while in others again, the villagers were allowed to make use, without restriction, of trees growing on unreserved lands.

13. *Financial.*—The following table compares the financial results of the working of the department during the past five years.

Year.	Receipts.	Charges.	Surplus.
	Rs.	Rs.	Rs.
1881-82	8,05,884	6,03,069	2,02,815
1882-83	9,03,914	6,36,558	2,67,356
1883-84	9,58,991	7,80,916	1,78,075
1884-85	11,62,689	8,84,421	2,78,268
1885-86	11,98,600	9,36,431	2,62,169

The receipts for the year amounted to Rs. 6,52,318 in the Southern Circle and Rs. 5,46,282 in the Northern, the charges being, respectively, Rs. 5,34,614 and Rs. 4,01,817. The percentage of the surplus to the gross receipts was 18·04, in the Southern Circle and 26·44, in the Northern Circle. The total surplus was Rs. 16,099 less than in the previous year, but was considerably greater than the budget or revised estimate, this being the outcome of the strict economy in expenditure ordered by Government. For future years, the department has been directed to estimate, so that a minimum surplus of Rs. 2,50,000 may be shown.

14. *General.*—The touring of the Conservator, Southern Circle, embracing as it did every district of his charge, with but one exception, was very satisfactory. Government consider that the Conservator, Northern Circle, should have visited more districts than he did. Forest work cannot progress rapidly if Conservators are not pretty constantly on the move and personal communication with District officers is of far more value than quires of letters. His Excellency the Governor in Council has had much pleasure in perusing the remarks made at paragraph 54 of the Proceedings of the Board of Revenue, and he agrees in the opinion therein expressed that the results of forest operations during the past year are very creditable to the officers concerned.

(True Extract.)

J. F. PRICE,
Ag. Secretary to Government.

ANNUAL

ADMINISTRATION REPORTS

OF

THE FOREST DEPARTMENT

(SOUTHERN AND NORTHERN CIRCLES),

MADRAS PRESIDENCY,

FOR THE

OFFICIAL YEAR

1886-87.

HH-K-4e.

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1888.

134080

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE SOUTHERN CIRCLE, MADRAS,

FOR THE YEAR 1886-87.

By Lieut.-Colonel I. CAMPBELL WALKER, Staff Corps,

CONSERVATOR OF FORESTS.

CHAPTER I.

Introductory Remarks.

The Conservator visited all the districts in his Circle during the year, the inspection tours having commenced about the middle of July and continued until the close of the year.

He was absent for one month in October on special duty at Dehra Dún, during which period Mr. J. W. Cherry officiated as Conservator of Forests.

The most important inspections were :—

Chingleput.—The Kámbákam and three other reserved forests in the Tiruvallúr taluk.

North Arcot.—The Gudiyátam and Vellore forests, Napier and Mámandúr reserves in the Chandragiri range, and the Kangundi Zemindari forests, besides Government topes and casuarina plantations.

Salem.—The Kurumbapatti and Settichávadi reserved lands, the Shevaroy Hill reserves including the Morúr block, the reserves and Mitta forests on the slopes of the Javádis and Yelagiri hills, and the reserves in the neighbourhood of Burghúr.

North Coimbatore.—Satiyamangalam and Kollegál hill forests under selection for settlement (by Mr. Cherry).

South Coimbatore.—Bhaváni valley, Bolampatti and Sholakarai reserved forests.

Malabar.—The Nilambúr plantations, Tiruvazhamkunnu and Wálayár.

Inspection memoranda were sent to Collectors and the Board of Revenue.

2. The Conservator inspected all the District Forest offices during the year and found them generally in good order, except those of North Arcot, Madura, Tinnevelly and South Coimbatore. The detailed results of such inspections were duly communicated to the Collector and the Examiner of Forest Accounts.

Although two years have now elapsed since the introduction of the Forest Code, its provisions are not thoroughly understood and acted up to in several districts. The fault is in a great measure attributable to the inefficiency of the District office staff. A better class of men on increased rates of pay is required.

The Conservator regrets also to observe that there is still much room for improvement as regards the frequency and thoroughness of inspection of Range offices and depôts by District Forest-officers as prescribed by paragraphs 184 and 185 of the Departmental Code to which the attention of Collectors and District Forest-officers has been solicited.

3. The time spent in camp by the District Forest-officers during the year is reported as follows :—

District.	Name of officer in charge.	Number of days spent in camp.
Chingleput	T. Muhammad Ali Sahib Bahadur	212
North Arcot	Mr. T. Sheffield	151
South Arcot	„ H. L. Wooldridge	227
Salem	„ J. W. Cherry (274 days)	160
Trichinopoly	„ A. W. C. Stanbrough	210
North Coimbatore ..	„ W. C. Hayne	173
South do. ...	„ H. J. A. Porter	167
Madura	„ H. A. Gass (134 days)	* 73
	„ A. W. C. Stanbrough (118 days) ...	78
	„ A. W. Peet (113 days)	55
Tinnevelly	„ C. E. Brasier (274 days)	177
	„ C. Eber Hardie (91 days)	63
Malabar. Wynaad and Pálghat ...	„ R. W. Morgan (311 days)	204
Malabar. Nilambúr ...	„ G. Hadfield	94
South Canara	„ T. P. Peake	151

* At Kodaikánal.

All the officers travelled sufficiently, the average stay in camp being about six months.

CHAPTER II.

AREAS AND BOUNDARIES.

4. *Areas.*—The following table shows the changes in the areas of forest lands during the year 1886-87 :—

Description or class of forest.	AREA ON 1ST APRIL 1886.		ADDED DURING THE YEAR.	EXCLUDED DURING THE YEAR.	AREA ON 31ST MARCH 1887.	
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.
Reserved forests (Form 59-A.) ..	976,715·48	1,526·12	200,284·46	375	1,176,624·94	1,838·45
Reserved lands (Form 59-C.) ..	2,241,880·18	3,502·93	305,079·86	207,817·97	2,339,142·07	3,654·91
Forests regarded as reserves prior to Act V of 1882 (Form 59-B.).	196,596·71	307·18	432	17,652	179,376·71	280·27
Other forests (Form 59-D.) ..	720,477·50	1,125·73	13,500	30,579	703,398·50	1,099·08
Total ..	4,135,669·87	6,461·96	519,296·32	256,423·97	4,398,542·22	6,872·71

5. *Reserved Forests.*—Of the area excluded, 16 acres are in the Kámbákam reserved forest of the Chingleput district, being the extent of land claimed by the Zemindar of Kálahasti and demarcated out in laying down the western boundary in accordance with Revenue Board's Proceedings, dated 9th April 1886, Forest No. 183. The remaining 359 acres were found (by actual survey) to be deficient in the Punjantángi and Minnakaradu reserved forests in the Trichinopoly district.

Of the area added during the year, 38·46 acres are in North Arcot, being a portion of the Kílminnel plantation (reserved forest), once washed away by floods but since reclaimed from the river, and the remaining area represents reserved lands duly settled and constituted reserved forests during the year in the following districts :—

	ACRES.
Chingleput	23,383
Salem	110,056
Trichinopoly	17,137
North Coimbatore	48,000
Madura	1,670
Total ...	200,246

The net addition to reserved forests was 199,909·46 acres, or 312·36 square miles.

The final constitution of reserved forests has not progressed so rapidly as could be wished owing to appeals against Forest Settlement-officers' decisions and delays in publication of notifications under section 16 of the Act, but it may be noted that three blocks of about 24 square miles in Chingleput, four blocks of 50 square miles in Salem, and two blocks of 40 square miles in South Canara, or 114 square miles in all, were notified before the close of the year under report, but as the date from which the reservation takes effect falls within the current year, they are not included in the returns for 1886-87.

6. The areas proposed for reservation under section 4 of the Forest Act, which had not been constituted reserved forest up to 31st March 1887, were as follows:—

District.	Of those notified in 1883-84.		Of those notified in 1884-85.		Of those notified in 1885-86.		Notified in 1886-87.		Total.			Remarks.
	Number of blocks.	Acres.	Number of blocks.	Acres.	Number of blocks.	Acres.	Number of blocks.	Acres.	Number of blocks.	Acres.	Equivalent in square miles.	
Chingleput ..	..	..	1	5,649	2	9,608	6	7,168	9	22,425	35·04	The areas of blocks in some districts have been revised in accordance with the latest estimates from District Forest-officers.
North Arcot..	3	47,121	..	..	..	..	1	64,000	4	111,121	173·63	
South Arcot..	..	..	..	..	32	119,996	19	18,575	51	138,571	216 52	
Salem ..	..	..	40	233,588	9	93,015	2	14,500	51	341,103	532·97	
Trichinopoly.	..	..	..	..	10	6,707	17	82,726	27	89,433	139·74	
Tanjore ..	..	..	..	..	..	..	2	4,200	2	4,200	6·56	
Madura ..	..	..	..	..	..	..	8	60,800	8	60,800	95·00	
Tinnevelly ..	..	..	..	..	5	172,606	..	..	5	172,606	269·70	
Malabar— (Wynaad and Pálghat) ..	1	15,203	3	65,653	3	25,862	1	39	8	106,757	166·80	
South Canara.	..	..	..	..	5	48,055	9	21,170	14	69,225	108·16	
Total ..	4	62,324	44	304,890	66	475,849	65	273,178	179	1,116,241	1,744·12	

Of the apparently large extent of 1,744·12 square miles notified under section 4, which had not been constituted reserved forests up to 31st March 1887, the settlement of the following areas was practically complete at close of the year:—

District.	Number of blocks.	Area in square miles.	Remarks.
Chingleput	4	28	Three blocks of 24 square miles notified under section 16 in 1886-87 with effect from 1st June 1887. In one block of 4 square miles the appeal time had not expired. Hence the final notification could not be submitted.
North Arcot ..	4	173·63	Final notifications were not submitted owing to non-expiry of appeal time.
South Arcot ..	20	90·65	Do. do. do. do.
Salem	25	234·00	Four blocks of 50 square miles notified under section 16, but date of reservation falls in the current year, and for the remainder, Forest Settlement-officer's final reports were with the Collector.
Trichinopoly ..	10	9·07	Forest Settlement-officer's final reports were ready for submission to Board and Government.
Madura	1	9·00	Do. do. do. do.
Tinnevelly	3	132·46	Do. do. do. do.
	2	137·24	Appeals to the District Court remained undisposed of.
Malabar (Wynaad) ..	7	143·05	Do. do. do.
Do. (Pálghat) ..	1	23·75	Final notification was before Government and issued just after the close of the official year.
South Canara ..	2	35·00	Non-expiry of appeal time.
Total ..	79	1,015·85	

This leaves only 100 blocks of 728·27 square miles actually unsettled at the close of the year, *i.e.*, sixty-five blocks of 427 square miles notified under section 4 in 1886-87 and thirty-five blocks of 301 square miles notified in previous years.

Much difficulty has been experienced in getting Collectors and District Forest-officers to send in proposals and notifications under section 4 in a correct and business-like manner with all the accompaniments, such as key-map, &c. This has been brought to the notice of the Board, who, in their Proceedings, dated 3rd February 1887, Forest No. 62, drew the attention of Collectors to the subject.

7. *Reserved Lands.*—From the area of reserved lands (Form 59-C.) on 1st April 1886, viz., 3,503 square miles, 312·88 square miles are deducted by transfer to reserved forests (Form 59-A.), and to the remainder, viz., 3,190 square miles, 27·21* square miles were added by transfer from areas considered reserves prior to Act V of 1882 (Form 59-B.), 41·78† square miles from "other forests" (Form 59-D.), and 15·65 square miles by correction of areas according to survey, &c. New areas aggregating 380·21 square miles were added in the following districts :—

	SQ. MS.
* Chingleput	4·00
South Arcot	23·21
† South Arcot	1·58
Madura	40·00
South Canara	0·20

		SQ. MS.
Chingleput, South Arcot, South Coimbatore, Malabar (Wynaad and Pálghat)		12
North Arcot		100
Salem	22	110
Madura	55	
South Canara	33	
Trichinopoly		158
Total ...		380

These new areas are merged in those notified under section 4 of the Forest Act during the year and shown in paragraph 6 *supra*, excepting 28·75 square miles in Trichinopoly which represent the extent of forty-eight blocks constituted reserved lands under rule 2 of the rules under section 26 of the Act preparatory to notification under section 4 after the boundaries have been carefully identified and demarcated in a preliminary manner. In no other district was there any reservation of lands under the said rule during the year. The net addition to reserved lands during 1886-87 was 97,262 acres, or 152 square miles.

8. *Form* 59-*B.*—Areas regarded as reserves prior to Act V of 1882 exhibits a net reduction of about 27 square miles during the year, due to transfer to areas of reserved lands, as already explained.

Under "other forests," Form 59-D., there was an addition of about 15·25 square miles caused by correction of areas in South Arcot and Trichinopoly, and a reduction of about 41·78 square miles by transfer to "reserved lands," the net decrease in area being about 26½ square miles.

9. The total areas in each class on 31st March 1887 as compared with those on 31st March 1886 are as follows:—

Class of Forests.	Area on 31st March 1886 in square miles.	Area on 31st March 1887 in square miles.	Difference in square miles.	Percentage of Forest area to District area on 31st March 1887.
Reserved forests under Act V of 1882 ..	1,526·12	1,838·45	+ 312·33	3·00
Reserved lands	3,502·93	3,654·91	+ 151·98	5·97
Forests regarded as reserves prior to Act V of 1882	307·18	280·27	— 26·91	·45
Other forests	1,125·73	1,099·08	— 26·65	1·79
Total ..	6,461·96	6,872·71	+ 410·75	11·24

The above figures prove that we are keeping well within the mark as regards the proportion of forest areas to be reserved and brought under conservancy, compared with those left unreserved for extension of cultivation and the exercise of privileges by cultivators. The Government forest estates in the Southern Circle will probably eventually aggregate *at least* 10,000 square miles as compared with district areas aggregating 61,130 square miles.

10. *Boundaries.*—The clearing of boundary lines and demarcation made better progress than in the previous year, the figures being 1,134 running miles at an expenditure of Rs. 8,735 (average Rs. 7-11-3 per mile) as against 793 miles at a cost of Rs. 5,317 (average Rs. 6-11-3 per mile) in 1885-86.

The permanent demarcation of the reserved forests is a most important matter, and the greatest difficulty is experienced in securing accuracy on the part of subordinates (Rangers and Foresters) entrusted with the duty, so much so that Mr. Cherry, the District Forest-officer, Salem, finds it necessary to attend to it himself. A few reliable demarcation officers are much required.

The following tabular statement exhibits the work done in the different districts:—

Districts.	Particulars.	Width of the line cleared or demarcated.	Reserved Forest.		Reserved Lands.	
			Length of the line cleared or demarcated	Cost.	Length of lines cleared or demarcated	Cost.
		FEET.	MILES.	RS.	MILES.	RS.
Chingleput.	Permanent demarcation of the remaining portions of the works commenced in the previous year was completed and 60 stones (with letters R. F. cut) fixed	15	5	312	..	..
	Demarcation of lines and collection of 50 stones ..	12	41	1,043	..	..
	Preliminary demarcation with earth and stone cairns ..	..	..	..	..	49
North Arcot.	Permanent clearing of boundary lines on the Javádis and opening out demarcation	..	..	..	20	345
South Arcot.	Clearing of old and new boundary and compartment lines.	..	..	..	120	476
	Planting boundary lines with aloes	..	..	..	2½	34
	Clearing 2,810 old trenches (boundary marks) of silt, &c.	..	..	..	..	68
	Half the cost of demarcating the district boundary and erecting 30 masonry pillars in the new tract lately transferred from Salem between North and South Arcot.	24	..	..	15	330
Salem ..	Clearing and demarcating (latter only 137 miles) ..	..	..	..	148	1,750
Trichinopoly	Clearing boundary lines and demarcating a portion with 251 stones (purchased in previous years) at 55 yards apart, &c.	..	..	..	8	160
	Temporary demarcation with 1,287 wooden posts marked "R.F." fixed 100 yards apart from each other ..	..	..	..	71	197
North Coimbatore.	Clearing permanent demarcation lines at different widths and erecting 78 cairns and 2,693 posts, &c.	..	..	..	140	723
South Coimbatore.	Clearing lines and erecting 203 cairns with wooden posts, &c.	..	44	347	..	..
Madura ..	Clearing of lines and demarcating with rock marks or special boundary pillars in 5 reserves; demarcating and surveying 3 others, and merely demarcating another; also purchasing demarcation stones for 2 reserves and peg marking one	12 to 15	92	1,083	..	..
	Demarcating and surveying one block and clearing the outer boundary line of another	..	..	..	12	49
Tinnevelly.	Re-clearing boundary lines between Government and other private forests	6	61	201	..	..
	Demarcating with 327 stones 7′ × 6″ × 4″ letters F.D. and serial numbers cut on them	..	..	..	..	315
	Re-clearing the Revenue Survey line forming the eastern boundary of the lower slopes of the ghât in the Ambásamudram and Nánguneri taluks and replacing missing stones	4	..	..	57	331
Malabar (Wynaad and Pálghat.)	Clearing boundary and erecting 771 cairns and about the same number of teak posts and reconstructing 32 cairns and pillars wrongly put up	..	151	573	..	..
	Clearing boundary and erecting 340 cairns and teak posts.	..	..	..	42	271
South Canara	Erecting 638 rough-stone cairns, 4 feet diameter and 3½ feet high, &c.	..	..	..	105	78
	Total ..	..	394	3,559	740	5,176

In addition to the above, the District Forest-officer, South Arcot, established about 10,800 casuarina plants at 3 feet apart along the boundaries of the Coast plantations for a distance of six miles.

With a view to avoid possible disputes with private estates, the District Forest-officer, Salem, issued notices under the Boundary Act to the owners of certain properties, eight in number, to clear their limits. Five of them had complied, and three others had the work in progress at the end of the year.

In the matter of the Travancore boundary on the Anaimalais, referred to in the last annual report, the arbitrator (Mr. J. C. Hannyngton, C.S.) gave his award, and

the line to be adopted was settled definitely (*vide* G.O., dated 2nd October 1886, No. 853) and instructions issued for its demarcation, &c.

CHAPTER III.

Surveys, Working Plans and Annual Plans of Operations.

11. *Surveys.*—Nothing definite has yet been decided with regard to the organization of a Special Forest Survey Party, although the pressing need of forest maps is fully recognized.

A conference took place in June 1886 at Ootacamund between the Revenue Secretary to Government, the Superintendent, Madras Survey, and the Conservators, who were unanimously of opinion that the Madras Survey should hand over to the Topographical Survey Department of the Government of India the topographical work in the Madura and Malabar districts, which had been partially completed, and that in Tinnevelly and South Canara (where nothing had yet been done), and that the forest surveys in these districts should be undertaken by the Topographical Survey Department provided the work was promptly taken in hand.

The Surveyor-General, Calcutta, accordingly arranged, in September 1886, to commence operations in Madura and Tinnevelly, the survey to include that of the forest reserves on such scales as might be required by this department. The District Forest-officers concerned were instructed to render all possible assistance. The boundaries of reserved forests on the Palnis in the Madura district have been cleared, demarcated and kept ready for survey, but the progress during the year, as reported by District Forest-officers, appears to have consisted in merely fixing of stations on selected peaks preparatory to a triangulation survey being effected.

The Superintendent promised to arrange for the survey of the Gingee hills (50 square miles) in South Arcot, to enable the District Forest-officer to elaborate a preliminary working plan for those reserves, but nothing appears to have been done.

Almost the whole of the other districts in this Circle are stated to have been topographically surveyed by the Madras Survey Department on the one-inch scale, but it appears that the work has not, as a rule, been checked by competent superior officers, and the maps are therefore more or less inaccurate even when published. Colonel Sargeant admitted this when he came to look into matters, and it is believed that steps are being taken to check and revise the maps, but the Survey Department like our own is very short of officers.

As the scale of one mile to the inch is too small for our purposes (valuation surveys and framing preliminary working plans), the Superintendent agreed to provide outline maps on an enlarged scale, on which the details we require would be filled in by temporary surveyors and Forest Range-officers, when qualified, working under the District forest-officer, the maps being finally reproduced by photo-zincography in the Survey Office at Madras. That has to some extent been done, four surveyors having been entertained (Board's Proceedings, Forest No. 546, dated 11th October 1886). This arrangement suffices for the small areas hitherto brought under the provision of preliminary working plans, but great difficulty is experienced in securing the services of qualified surveyors who will work in the forests, and the District Forest-officers have really too much work to supervise them even when they are competent to do so.

Moreover, working plans covering much larger areas on a less elaborate scale are urgently required and cannot be prepared without proper maps. For this purpose, the services of a Special Forest Survey party, working under the orders of an officer conversant with our requirements as foresters, appear indispensable.

During his visit to Dehra Dún, the Conservator ascertained that such a party could best be organized and worked by a Forest-officer trained in forest surveys, and proposed that, as soon as an officer is available, he should be sent to work under the Superintendent, Forest Surveys, Government of India, and return, when qualified, with a small staff of experienced forest demarcators and surveyors kindly promised by

Mr. Reynolds. The paucity of officers of the superior staff is the great difficulty to carrying out this idea which is still under consideration.

12. The preparation of a special forest atlas for the Presidency was suggested by the Board of Revenue, but the idea was abandoned on the Superintendent, Madras Survey, pointing out the large outlay and the length of time which it would involve. A more feasible plan of showing reserved forests and reserved lands on the Office Reference Map of the Presidency now in course of completion, was decided upon and is believed to be in progress.

13. *Departmental Surveys.*—A few surveys were done departmentally during the year.

In Chingleput 954 acres ($1\frac{1}{2}$ square miles) of the southern portion of the Kámbákam plains forest and 263 acres of Meyúr plantation were surveyed and the former plotted to a scale of 10 inches = 1 mile, but the maps have not been published.

In Salem about 6 miles of outline along the Kanavaiputtur reserve were surveyed, but further progress was impeded owing to the resignation of the temporary surveyor employed on the work on the plea of ill-health.

In South Coimbatore a temporary surveyor resigned on a similar plea, and the Sub-Assistant Conservator of Forests attended to the surveys in the Bolampatti reserved forests in connection with working plans. The work chiefly consisted in filling in details on skeleton maps provided by the Survey Department, in surveying block and compartment lines, and making linear valuation surveys; the work was well done, and the maps are now being reproduced by draughtsmen in the Central Office with a view to publication. If ready in time, one or more will accompany this report.

In North Coimbatore the Vellamundi reserved forest (25 miles) is said to have been surveyed, but no map has ever been received.

The progress in Trichinopoly was greater than in other districts. A theodolite survey of three reserved forests and two reserved lands, with a total area of 5·35 square miles in the Manapárai sub-division of the Kulitalai range, approached completion during the year. The previously estimated areas of two of the forests, viz., Minnakardu and Punjantángi, are found to differ widely from those now ascertained by actual survey. The correct areas are now entered in the returns. Five other blocks of reserved lands (564·23 acres) were also surveyed either by theodolite or prismatic compass.

In Tinnevelly a traverse survey of the "Paradese coffee estate," containing 158·22 acres, and of the areas (193 acres) sown with palmyrah nuts in 1881-82 in the Kudiraimalai teri reserved land were completed.

In South Canara chain and compass traverse round Chinkramale forest was completed and another made round Serpinakadu, a small catechu forest in Kandapúr range and Pillárkhán forest in the Udipi range, but the maps were not plotted before the close of the year. The temporary surveyor in South Canara was engaged since January 1886 in sketching the Todur and Hosabetta blocks with an estimated area of $3\frac{1}{4}$ square miles on a scale of 8 inches to the mile. He also commenced a portion of the Andúr block (3 square miles) on the 4-inches scale, on which he was engaged at the close of the year.

14. *Other Surveys.*—The survey of the Lower Palni villages in the Madura district by the Revenue Survey Department was completed during the year, but no maps have as yet been published. The survey of the Padugais on the left banks of the Cauvery and Coleroon rivers in Trichinopoly was continued during the year by the Survey Department, but the work was put a stop to, owing, it is stated by the District Forest-officer, to want of funds and the orders to defer any detached surveys until a future period, as the Survey Department found work more pressing elsewhere.

In Malabar (Wynaad and Pálghat), the small portion of the western boundary of the cardamom forests at Kunnat Kottai (about 7 miles in length) and the western boundary of the Chenat Nair forests in Pálghat were surveyed by the Revenue Survey Department, besides other small blocks such as the Botanical Garden extension, the land purchased with the Dindimal house, two abandoned estates in Kudrakote, as well as certain other blocks ordered by the Forest Settlement-officer to be excluded from the reserves.

In Wálayár several surveyors and demarcators, assisted by the Forest Ranger, were employed in dividing the two blocks of the Wálayár reserved forest into compartments and sub-compartments and in demarcating out the blocks of sheet rock and small patch of Irular's cultivation, but they were all laid up with fever and the work was very badly executed, which has delayed the completion of the preliminary working plan on which the District Forest-officer was engaged. The work was being revised at close of the year.

15. *Working Plans.*—Three preliminary working plans were finally approved and sanctioned during the year, viz., those for Sholakarai in South Coimbatore and Morúr in Salem, referred to in paragraph 21 of last year's report, and one for the Cauvery south bank plantations (reserved forests) in Trichinopoly.

The two former are worked under the "coppice with standards" system and the latter under a mixed system of coppice and artificial replanting. The annual acre increment in the Cauvery plantations is calculated at 3·3 tons, valued at Rs. 9-8-0, which is very satisfactory, but will doubtless be increased under more systematic management and thorough protection.

A working plan, based on valuation surveys, was prepared for the Tekadi leased forest on the Anaimalais (South Coimbatore division) and formed the basis of the terms of a new and improved lease which has been concluded. The working plan will now be revised and its provisions applied from the current year. Fellings have already been conducted in accordance with it, which will supply valuable data with which to check our calculations and estimates.

Preliminary working plans for the Chinnar working circle (3,254 acres) and Noyel-Vellengiri working circle (13, 303 acres) in the Bolampatti range of the South Coimbatore division have been prepared and were under consideration at close of the official year. The former is to be treated as "coppice" and the latter as "high forest" under the "jardinage" (selection felling) method. Working plans for the treatment of high forest are naturally much more complicated than those for coppice or plantations, and immediately we have to deal with comparatively large areas as in the Noyel-Vellengiri working circle, grazing and other considerations present themselves, which will have to be referred to Government for settlement before the working plan can be finally sanctioned.

In North Arcot a working scheme for the plantations was drawn up by the Conservator when in the district, under which the annual fellings and re-plantings will be as follows, the estimated annual outturn being 3,000 tons of billet wood calculated on an annual acre increment of 3 tons :—

Year.	Tiruvallam.		Vibinjipuram.		Kilminnel.		Ammerdi.		Vannivedu.		Total area to be felled and re-planted annually during the present rotation.
	Number of compartment.	Area.	Number of compartment.	Area.	Number of compartment.	Area.	Number of compartment.	Area.	Number of compartment.	Area.	
		Acs.		Acs.		Acs.		Acs.		Acs.	Acs.
1886-87	10	54·80	4	24·39	..	..	..	..	..	..	79·19
1887-88	9	44·82	1	46·35	..	..	..	..	..	..	91·17
1888-89	8	40·70	2	39·90	1	26·10	..	..	..	..	106·70
1889-90	7	41·90	3	49·15	4	3·51	..	..	..	..	94·56
1890-91	6	54·24	6	46·95	..	..	..	..	..	..	101·19
1891-92	5	44·50	..	..	..	..	1	55·50	..	..	100·00
1892-93	4	35·10	..	..	..	..	2	14·50	..	..	92·63
	3	43·03									
1893-94	2	44·36	..	..	..	..	3	26·44	..	..	100·10
	1	29·30									
1894-95	..	..	..	..	2	37·07	4	63·56	..	..	100·63
1895-96	..	..	5	52·23	3	42·60	..	..	1	30	124·83
Total ..	..	432·75	..	258·97	..	109·28	..	160·00	..	30	991·60
Unproductive area ..	..	2·12	..	1·51	..	2·26	..	..	..	..	5·89
Total area as per survey.	..	437·87	..	260·48	..	*111·54	..	160·00	..	30	996·89

* 38·46 acres washed away by floods has since been reclaimed from the river and has to be added, which will make the area 150 acres.

Suggestions were at the same time made for the formation of the Mámandúr and Ambúr working circles with an area of about 18,000 acres each, for which, when divided into blocks and compartments of convenient size and mapped, working plans can be framed.

The collection of information with regard to the number and dimensions of sandalwood trees on the Javádis was continued during the year. It is hoped that one "nád" will be completed during the current official year; but it will doubtless take some years to finish the whole Javádis with the limited establishment now at our disposal. Until this is done, we should be working entirely in the dark, and therefore all felling of sandalwood, except of really old back-going trees and digging up of old roots, has been prohibited.

In South Arcot rough working plans are stated to have been drawn up for the Tiruvannámalai reserved forest in view to its being handed over to the management of the local Temple Committee (*vide* G.O., dated 23rd March 1887, No. 317) and for the Shónankuppam plantation, but neither have reached this office.

A preliminary working plan for the Alagarmalai reserved forest (20 square miles) in Madura (prepared by Mr. C. Somers Smith, Assistant Conservator of Forests,) was received during the year, but had to be returned by the Conservator for revision.

In Tinnevelly data were being collected during the year by the felling of compartments on the "coppice with standards" system aggregating upwards of 50 acres.

In Salem extensive areas are being surveyed and mapped prior to division into blocks and compartments, and the framing of working plans for the supply of the Madras Railway and Salem town as suggested in the Conservator's inspection memorandum.

The resignation of the surveyor, the delegation of Mr. Carroll, Sub-Assistant Conservator of Forests on other duty, and press of work generally, has, however, delayed the work.

Similarly in Malabar (Wynaad and Pálghat) the working plan for Wálayár (3,017 acres) has been delayed for want of the map referred to under "surveys."

16. Generally it may be said that, whilst every endeavour has been made to bring the plantations and reserved forests under something in the shape of working plans even of the most rudimentary description, much progress has not been made owing to District Forest-officers and their subordinates having their hands full with the selection, settlement, and demarcation, of reserved forests in addition to their routine duties.

No officers are available for the special work, and until they are, it is impossible to expect good results in this important direction.

17. *Annual Plans of Operations.*—Annual plans of operations were drawn up in connection with the budget, but cannot be said to have been adhered to, whilst for the current official year they have been utterly upset by the demand for a large surplus revenue and consequent alteration in our figures and plans.

CHAPTER IV.

Protection and Improvement.

Section 1.—*Reserved Forests.*

Section 2.—*Other Forests.*

18. It is still found inconvenient to deal separately with the reserved and the other forests, for reasons given in previous annual reports; but the establishments are being gradually concentrated on the "reserves," and a separation will shortly be practicable in some divisions.

(*a*) *Establishment, Ranges and Beats.*

19. *Establishments.*—The superior staff remained the same as in the preceding year, consisting of 1 Conservator, 8 Deputy Conservators and 5 Assistant Conservators,

of whom one Deputy Conservator (Mr. H. A. Gass) proceeded on furlough in August, Mr. Peet taking his place *pro tem.* in Madura, and T. Muhammad Ali Sahib Bahadur, Sub-Assistant Conservator, 1st Grade, acting in the Assistant Conservator's class, to fill the vacancy.

The average charge of a Divisional or District Forest-officer in the Circle is about 4,700 square miles, of which about 530 square miles is actual forest under the special charge of the department.

20. The scale of permanent establishments (subordinate staff) sanctioned for the year did not vary materially from that for 1885-86. It was as follows :—

Sub-Assistant Conservators	7
Rangers	30
Foresters	73
Forest Guards	357

One Sub-Assistant Conservator, Mr. Eber Hardie, was promoted from the 2nd to the 1st Grade. Mr. Marshall, Sub-Assistant Conservator, on probation, proceeded to the Forest School, and one appointment in this class was left unfilled up as no suitable person could be found to fill it. We are really short of our establishment by three Sub-Assistant Conservators, the maximum number sanctioned for the Circle being eight, whilst only five (excluding Mr. Marshall) are entertained. It is hoped that some of the Rangers, who have qualified at the Forest School, will prove their fitness for promotion during the current year.

An additional Forester was entertained for Tanjore, and another and five extra guards for North Arcot, owing to transfer of large areas to that district from Salem. Savings were effected by the non-entertainment of the Sub-Assistant Conservators referred to above and the entertainment of men in all classes in lower grades than were provided for in the sanctioned scale for the year.

21. *Ranges and Beats.*—The number of ranges into which each district is divided is shown in the following table, together with the approximate average area of each range charge and that of the actual forest which it includes :—

Districts.	Number of Ranges.			Approximate average area of each range charge.	Approximate average area of actual forest in each range charge.	Remarks.
	In charge of Forest Rangers.	In charge of Foresters.	Total.			
Chingleput	..	*4	4	710	32	* One of these is temporarily in charge of a Forest guard.
North Arcot	3	1	†4	1,814	205	† The number of ranges has since been increased to 10, of which 4 are under Rangers and 6 under Foresters.
South Arcot	2	5	7	696	152	
Salem	3	6	9	850	99	
Trichinopoly	2	3	5	712	40	
Tanjore	..	2	2	1,827	11	
North Coimbatore ..	3	..	3	713	369	‡ One of these is temporarily in charge of a Tahsildar.
South Coimbatore ..	3	‡5	8		73	
Madura	3	2	5	1,680	130	*Note.*—The figures quoted under approximate area of forest in each range charge exclude areas of private or Zemindari forests.
Tinnevelly	2	..	2	2,690	310	
Malabar	3	3	6	961	113	
South Canara	1	4	5	780	22	
Total ..	25	35	60	1,019	115	

It will be seen from the above that the average range charge embraces 1,019 square miles, of which 115 square miles at least is actual forest. The average charge of a Forest guard (Beat) is about 20 square miles of forest.

Those areas are really far too extensive for proper supervision, and when we secure the whole forest area which can legitimately be reserved, say at least 10,000 square miles for the Circle, we shall have to augment and re-distribute the

establishments so as to ensure thorough protection, proper forest management, and adequate financial results.

South Coimbatore is the only division in which the constitution of reserved forests may be said to have been completed. Here the limit and area of range charges (excluding the Palladam range fuel and fodder reserves under the Tahsildar) as well as of guards' beats or blocks have been defined and marked on the ground and the responsibility of each individual officer duly fixed.* The average extent of each range charge is about 81 square miles of actual forest and of each Forest guard about 20 square miles, but the size and relative importance of the range charges and beats vary very considerably.

Attempts have also been made in Malabar (Wynaad) and South Canara to define more accurately the extent of each Forest guard's beat or charge, but matters are not yet definitely settled.

Generally it may be stated that under Mr. Brandis' scheme of organization, Forest Range-officers are in charge of all the woodlands and tree growth within the limits of their range and have to travel all over it to assess the value of trees, collect seigniorage, check permits, &c. It is only as reserved forests are constituted that it will be possible to show the extent of actual 'forest' in each charge separately.

(*b*) *General Protection and Breaches of Forest Laws.*

22. General protection has continued to improve, but will not be complete until we have a stronger and better educated professional staff to guard and work the reserved forests in a rational manner.

A detailed statement of prosecutions for breaches of forest laws will be found in Form No. 63. The results for the whole Circle as compared with the preceding year may be summarized as follows:—

Year.	Number of cases pending at commencement of the year.	New cases for the year.	Total.	Number of cases compounded, &c.	Balance.	Number of cases disposed of by Magistracy during the year.	Number of cases convicted.	Number of cases acquitted or discharged.	Percentage of convictions.	Number of cases pending at the close of the year.
1885-86 ..	189	1,154	1,343	281	1,062	971	645	326	66·4	91
1886-87 ..	94	1,339	1,433	460	973	817	574	243	70·2	156
Difference ..	— 95	+ 185	+ 90	+ 179	— 89	— 154	— 71	— 83	+ 3·8	+ 65

The increase in percentage of convictions obtained is satisfactory.

The number of cases compounded by Forest-officers under section 55 of the Forest Act has increased by 179. From inquiries made during his tours, the Conservator has no reason to imagine that the powers are abused. The results of departmental inquiries are, as a rule, carefully recorded, but it appears advisable to secure more uniformity in procedure as suggested by the Government of India. Most of the offences compounded were of a petty nature. The amount of compensation realised was a little over Rs. 2,350, of which South Canara contributed the greater part, viz., Rs. 1,650, Salem Rs. 350, Tinnevelly Rs. 175, North Arcot Rs. 150, and the remainder came from other districts in various small sums.

The large amount collected in South Canara was chiefly for unauthorized *Kumari* clearing cases in Kásaragód and Uppinangadi.

Forest offence cases (cattle trespass) in which 140 head of cattle were concerned were compounded for Rs. 13 in South Arcot. In four others, offenders were prosecuted. Two were convicted, one acquitted, and the fourth was pending at close of the year.

In the same district 5,930 head of cattle were impounded during the year for trespassing in areas closed against grazing and the "pound fees" collected have been ascertained to amount to Rs. 560. The bulk of those cattle are, it is believed, foreign herds from Tanjore and elsewhere which have been accustomed to roam at large and

devastate the forests. Every endeavour is made to warn the herdsmen to avoid closed areas, but apparently with little good effect.

23. Great difficulty is still experienced in protecting the Trichinopoly plantations (reserved forests) from the inroads of semi-wild cattle which destroy the young trees.

The Conservator has been in frequent communication, verbal and oral, with the Collector and District Forest-officer on the subject, and it is proposed to prosecute the owners and herdsmen under section 21 (*d*) of the Forest Act after giving them due warning to adopt reasonable precautions to prevent trespass. There is still a tendency on the part of the magistracy, especially in Malabar, to deal very leniently with forest offenders. This is a fault in the right direction in the case of petty offences in ill-defined areas, but it is otherwise in the case of deliberate breaches of the law in reserved forests legally constituted and clearly demarcated by pillars and boundary lines.

(*c*) *Forest Fires and Fire-protection.*

24. Forest fires in areas not under special protection have been as usual very prevalent throughout the Circle.

It is almost impossible at present to estimate, with any pretence to accuracy, the unprotected areas which have escaped from fires. The following table affords, however, such information on the subject as the Conservator has been able to collect from a few districts. The classification adopted is mainly intended to show District Forest-officers how the information can best be recorded in future reports:—

District.	Area of forest lands in the district in square miles.	Area of forests specially protected in square miles.	Balance or area of unprotected forests in square miles.	Area of evergreen forests, &c., which usually escape fires every year, square miles.	Balance or area of deciduous, &c., forests unprotected in square miles.	Area of deciduous unprotected forests which escaped fires during the year, square miles.	Percentage of deciduous forests which escaped to the whole area of such forests.
South Arcot	1,067	121½	946	440	506	460	90·9
Salem	887	48	839	Not known.	839	400	47·6
South Coïmbatore	586	22	564	..	564	553	98·0
Madura	650	244	406	..	406	238	58·6
Tinnevelly	620	62	558	247	311	Not known.	..
Malabar (Wynaad and Pálghat) ..	646	48	598	20	578	164	28·3

The Conservator refrains from making any comments or drawing any conclusions from the above figures or statistics. They are merely given for what they are worth and cannot, in the Conservator's opinion, be relied upon.

25. *Special Protection.*—The following areas have been newly brought under protection during the year:—

		ACRES.
North Arcot	1 block.	64,000
Madura	5 blocks.	31,458
Tinnevelly	2 „	19,850
South Canara	4 „	5,790
Total ...	12	121,098
Add on account of rectifications of areas in the latest estimates ...		630
Total ...		121,728

which is 22·8 per cent. greater than the addition of new areas in the preceding year.

The above added to the area successfully protected up to the beginning of the year (as shown in the last report) exhibits a total area of 692,230 acres, to which special fire-protection was afforded during the year at a cost of Rs. 16,811. It will be

seen that the total area attempted is 19·4 per cent. greater than that of the preceding year. The fires or failures during the year amounting to 24,880 acres or 3·6 per cent. of the area attempted are also, the Conservator regrets to say, greater than the preceding year's failures by 2 per cent.

The largest fires occurred in South Arcot in six out of the ten blocks under protection and burnt over 14,245 acres, or about 18 per cent. of the total area attempted. Fires occurred on fifteen occasions, during one of which they are reported to have spread from unreserved forest in the adjoining district (Salem). On all other occasions, the District Forest-officer, after personal inspection, suspects that fire was wilfully set, but the offenders have not been detected. In nine of these cases the fires were extinguished as soon as possible by the men employed for the purpose, but it seems evident that they were either new or not good workers. The comparative failure of the north-east monsoon and early drying up of the grass doubtless upset arrangements, but the conduct of the Range and Sub-range officers and guards was not all that could be desired and is still under departmental inquiry. The number and width of lines as well as the number of patrols employed were found insufficient to afford adequate protection; and further, the forests were not strictly closed to all persons, as rights of way existed which were not fire-traced, and the free cutting of thatching grass appears to have been permitted throughout the dry season, which was suicidal. The next largest fires were in Madura, where 6,168 acres were burnt. Fire is reported to have been caused by incendiarism in eleven cases, of which five were detected and delinquents punished. In two cases the origin of the fire could not be traced, while in two others it was due to accidents in burning off fire-lines; the remaining two are not explained by the District Forest-officer.

In North Arcot, where 2,485 acres were burnt, the fire is attributed by the District Forest-officer entirely to the failure of the north-east monsoon, which caused the grass to dry very early before precautions could be taken to isolate the specially-protected areas and adopt proper precautions inside. But this view is not altogether correct, as at least two fires in the Mámandúr and Napier reserves were, to the Conservator's knowledge, due entirely to carelessness in burning off the fire-lines by the Forest establishment.

District Forest-officers and Range-officers will not commence their fire-protection in time or understand that complete isolation must be secured and free entry prohibited *before* the grass becomes readily inflammable. The damage done to the promising young growth of red sanders in the Mámandúr block must have been very great, and the occurrence of the fire in an area which has been protected for years is a matter for much regret. The whole of the private forests in the neighbourhood of Rénigunta, Chandragiri taluk, were ablaze when the Conservator was there in February and the danger to the Government forest was great.

Special notices should be served annually on all private owners of forest similarly situated, calling on them or their agents to adopt due precautions under section 21 (*b*) of the Forest Act.

In Tinnevelly 870 acres were burnt by four fires, of which two occurred in portions in which free grazing was allowed, and are supposed to have been caused by cattle owners or herdsmen with a view to obtain a regrowth of grass, but the fires were put out by our patrols before much damage could be done. The third was also a small fire, and the result of an accident caused by some of the minor produce contractors, who quickly beat the fire out. The fourth was a large fire in Kalakad, lighted by charcoal-burners. Strong winds carried the fire over 800 acres, before it was arrested by burning off a portion of the forest to meet it. Two charcoal-burners were apprehended and sentenced to one month's simple imprisonment.

In South Coimbatore a fire which extended over 360 acres occurred in the Tunakadavu No. 1 range before the fire-lines had been completely burnt.

In Malabar (Wynaad), the Begúr forests were successfully protected with the co-operation of the Mysore and Coorg Forest-officers, which had been specially enlisted. One fire occurred, being the work of an incendiary, but only four acres of grass were burnt and no damage done to the forest. The offender was not detected. In Chenat Nair one fire occurred in Elival hill, due to Mulcers who were roasting yams. About 300 acres were burnt. The men were, on prosecution, convicted and sentenced to fifteen days' rigorous imprisonment.

26. Although the area attempted to be protected during the year was 19·4 per cent. greater than the area attempted during the preceding year the cost was only 13·3 per cent. greater than that (Rs. 14,851*) of 1885-86, which is very favorable.

	Rs.
*Cost from 15th June 1885 to 31st March 1886 as per last year's report	11,482
Cost from 1st April to 14th June 1885 as per monthly accounts ...	3,369
Total ...	14,851

The area successfully protected during the year was 667,350 acres or 96·4 per cent. of the area attempted against 98·4 per cent. in the preceding year, and the cost per acre was 4·8 pies or Rs. 16 per square mile against 5 pies in 1885-86 or Rs. 17 per square mile.

The total cost from the commencement up to 31st March last amounted to Rs. 58 per square mile of successfully-protected area.

(*d*) *Grazing.*

27. The important subject of grazing was fully discussed at the recent Forest Conference at Dehra Dún, and the Government have already been informed of the resolution recorded there (*vide* Revenue Board's Proceedings, dated 22nd April 1887, Forest No. 229), which expresses exactly the Conservator's own views in the matter.

28. As regards the "light-grazing" scheme referred to in the last annual report, the Conservator has very little to add this year except that its advantages appear either not to be properly understood by the people, for whose sole convenience it is intended, or that circumstances do not really necessitate their seeking pasture in reserved forests.

This latter is a consummation most devoutly to be wished for, for there is no doubt that, from a forest point of view, *all* grazing, unless it be in the shape of a cultural operation, in the same manner as we should harrow or plough up an area to secure better reproduction or prior to sowing or planting it, does harm. The real benefit to the agricultural community of pasturing their ploughing and domestic cattle in forests at a distance from their fields and so losing the manure is also, to say the least, problematical, but it is customary, and forestry in India must, perhaps more than elsewhere, be more or less a compromise, especially in its early years and before its benefits both direct and indirect are fully recognized even by the governing body.

29. Where areas have been closed against grazing, or grazing fees have been levied in reserved forests or lands, it has been after making due and liberal provision for the free grazing of ploughing and domestic cattle of cultivators outside or inside the reserved areas, either by the exclusion of sufficient unreserved lands as in Chingleput, South Arcot, Salem, Madura, &c., or grant of free-grazing privileges within the reserves until areas can be excluded and set apart for their exercise as in North Coimbatore. The fees collected during the past year amounted to Rs. 35,665, the greater portion of which (Rs. 22,465) was realized in North Coimbatore where a census of the cattle was taken and all preliminary arrangements completed in the preceding year.

Free grazing was allowed to about 60,000 head of cattle, or nearly one-fourth of the total censused number, and much leniency shown in every respect in collecting the fees.

In South Coimbatore grazing has been practically permitted over the whole area of reserved forests, except of course the fire-protected portions. Goats and buffaloes were, however, excluded. The amount collected for cows and sheep only amounted to Rs. 5,240. The District Forest-officer is unable to estimate the actual area grazed over, but states that, although a very considerable area in the higher Anaimalais and the evergreen forests on the higher hills in the Bolampatti reserved forest is open to grazing, it is never visited by cattle. The forests most frequented are the outer and lower slopes of the hills, which the District Forest-officer apprehends will suffer greatly and the tree-growth gradually disappear, unless preventive measures are speedily adopted. He considers that even light grazing on steep hill slopes is quite inimical to natural reproduction and the retention of the forest and soil in their normal and satisfactory condition. His further observations on the subject are given under

section (*e*) of this report. The Conservator shares and endorses his views with regard to the injurious effects of grazing in open deciduous forest on steep hill slopes, even apart from the damage done by fire, which almost invariably follows in the footsteps of the cattle herd.

In Trichinopoly the right of grazing in the Cauvery reserved forests and other Padugai plantations was leased out as usual, subject to the necessary conditions as to closed areas, number of cattle to be admitted, exclusion of buffaloes and goats, &c. The revenue realized amounted to Rs. 2,328. The bulk of the hill forests was open to grazing free of any payment.

In North Arcot the District Forest-officer proposed to levy half the maximum rates sanctioned by Government in all reserved lands, and collections to the extent of Rs. 1,423 were made. Further collections were, however, suspended in February with the full concurrence of the Conservator in order that the boundaries might be revised, large areas excluded for the exercise of free grazing and other privileges, and the remainder notified for settlement as reserved forests. This was being done at the close of the year.

In South Arcot limited grazing was allowed on the Annamalai (Tiruvannámalai) reserved forest and several small herds of cattle, aggregating 448 in all, were admitted on payment for periods varying from one to three months. The fees collected from this source as well as from grazing in reserved lands amounted to Rs. 1,306.

In Madura Rs. 1,392 was realized principally from reserved lands on the Lower Palnis and in the Kachakatti forests of the Madura range.

The collections in Chingleput and Tanjore were small, amounting to Rs. 641 and Rs. 414, respectively.

In Tinnevelly a small revenue of Rs. 312 was obtained chiefly from reserved forests (Pápanásam hills), as free grazing was allowed throughout the year in the lower slopes of the ghâts (reserved lands), as well as in most of the reserved lands in the plains except in areas closely protected, *e.g.*, Kottankulam reserved land, where grass was allowed to be cut and removed free, which boon the District Forest-officer states was greatly appreciated by the people in the vicinity.

In all those districts, viz., South Arcot, Madura, Chingleput, Tanjore and Tinnevelly, the bulk of the forests were open to free and unrestricted grazing throughout the year, and the damage done by cattle, herdsmen and fires was considerable.

In Salem no fees were levied during the year, nor were any restrictions placed on cattle-grazing in other than fire-protected areas, except that goats and foreign cattle were excluded from reserved forests and lands.

Arrangements were initiated by the Conservator when in the district in January, under which grazing privileges when admissible in reserved forests will be secured in the first instance to neighbouring cultivators, subject only to reasonable restrictions and co-operation in measures of fire and general protection.

In Malabar (Wynaad and Pálghat), considerable areas of reserved forests were thrown open for light grazing without any appreciable results, the fees collected having been only Rs. 117.

(*e*) *Natural Re-production.*

30. In the fire-protected areas natural reproduction is progressing favorably. The results are more apparent in areas from which cattle also have been rigidly excluded.

31. In Chingleput and North Arcot there is little to be added to the remarks made last year, but careful personal inspection enables the Conservator to certify to the excellent results, especially with regard to the natural growth of the valuable Red Sanders (*Pterocarpus santalinus*), which is highly satisfactory.

The District Forest-officer, South Arcot, reports that seedlings of *Anogeisus latifolia* (Namai), *Dalbergia latifolia* (Redwood), and *Pterocarpus marsupium* (Vengai) are plentiful on the upper slopes of the protected portions of the reserved forests, whilst on the comparatively bare low land portions *Chloroxylon swietenia* (Satinwood) and *Albizzia amara* (Oosal) seedlings are scarce. The growth from coppice in three casuarina plantations near Cuddalore is stated to be good.

In Salem coppice shoots are springing up fairly from the stools of trees in the Morur block which were cut over departmentally between November and January last.

In Trichinopoly the areas covered with the Kasan (*Memecylon tinctorium*) enjoyed a much-needed rest, the results of which were apparent in a vigorous and promising regrowth from coppice.

In Tanjore reproduction from self-sown seed of Palai (*Mimusops indica*) in Point Calimere, Vagai (*Albizzia lebbeck*) and Selli (*Albizzia odoratissima*) in Karungulam and Konnai (*Cassia fistula*) in Nadur as well as coppice growth of Kasan (*Memecylon tinctorium*) and Avaram (*Cassia auriculata*) has been fairly satisfactory.

In North Coimbatore there have been signs of reproduction in the Yellapálaiyam and Arachalur fuel and fodder reserves, but the seedlings have been slow in making their appearance.

In South Coimbatore the rigid protection against fire and cattle extended to the Punachi reserved forest during the past five years is at last bearing good fruit, and the extreme measures of letting in cattle to break and tread down the high coarse grass, or even to burn it, suggested last year, will not, it is hoped, now be found necessary.

The District Forest-officer reports that seedlings are everywhere pushing their way above the grass, and that if we can only exclude fire and cattle for a few more years the tract will almost resemble a plantation. Mr. Porter observes that such grass requires plenty of light, and that when the seedlings are thick it is rapidly dying down. This is just what we expected and hoped for, and it is gratifying to learn that our patience and perseverance are likely to be rewarded.

Mr. Porter refers as a contrast to the condition of the hills surrounding the Tadagam valley in the Bolampatti range, which have been almost denuded of all tree-growth and other vegetation and present a truly miserable appearance. He is averse to the admission of cattle under any conditions to the outer and lower slopes of the Anaimalais, Bolampatti and other hills. The soil is dry and of little depth, and cattle destroy not only the seedlings and grass, but the shrubs which protect them, leaving the soil exposed to be washed away by the action of the rain and mountain streams. There is much force in his remarks.

The coppice growth in coupes felled over in Sholakarai in July 1885 and 1886 is progressing wonderfully well. The results obtained by proper treatment and thorough protection may therefore safely be considered satisfactory.

For Madura, the Acting District Forest-officer has no special remarks to offer. The District Forest-officer, Tinnevelly, stated that natural reproduction in the moist evergreen forests continues to be promising, and that in the fire-protected blocks of the deciduous forests seedlings of Vengai (*Pterocarpus marsupium*) are plentiful. The reproduction of teak both from seed and coppice in the 21·75 acres treated under the coppice with standard system in the Kalakad hills is reported to be very satisfactory, while in the coppice with standard compartment in the Pápanásam hills no reproduction from seed is noticeable in the case of teak, owing probably to the thick undergrowth of grass which has sprung up. The District Forest-officer suggests that it would be advisable to root out the grass immediately after a compartment is felled, which he considers would render the surface of the soil more friable and consequently better fitted to receive the seed, and also admit of young seedlings subsisting without being choked by the rank growth of grass.

It will probably be found sufficient to have more cover in the shape of standards, or to endeavour to secure the reproduction from seed before the final cutting which admits the light on which the rank grass springs up. There are, however, but few mature seed-bearing teak trees left in the Pápanásam forests, and we must trust mainly to natural reproduction from coppice, and artificial planting or sowing.

The Kongarayakurchi reserved land, situated in the plains, was fenced during the year, and the reproduction from the seed of Wodei (*Acacia planifrons*) and Nim (*Melia indica*) is reported on favorably.

Seventy-five clumps of bamboos were felled over on the system recommended by Colonel Van Someren, Conservator of Forests, Berar, of cutting only those culms over five years old, and the reproduction promises well.

In Malabar (Pálghat) the reproduction from coppice in the coupes felled in the Wálayár reserved forest continues to be excellent, that from seed in the case of teak

and vengai has also been good. In Chenat Nair the young irul comes on remarkably well. In Wynaad most of the seedlings burnt over in Begur in the previous year have died out completely, excepting those of two or three years of age, which are throwing up healthy coppice shoots. It is expected that the successful protection afforded during the year under report will give them a good start.

The seeding of vengai in Wynaad is reported good.

In Nilambúr the growth both from seeds and stools in the Karimpoya and Nellikutta reserved forests continues to be good.

In South Canara the coppice growth in the compartment felled in Poitaje is satisfactory, except in the case of *Hopea Wighteana*. *Butea frondosa* is stated to have coppiced very well from old stumps even, the shoots being 6 feet high in a couple of months. The District Forest-officer reports that in the Ullal casuarina plantation self-sown seedlings germinated towards the end of last monsoon and survived till the end of November in moderate shade growing to about 9 inches in height.

(*f*) *Artificial Reproduction.*

32. The area of regular plantations (Form 60) at the beginning of the year was 12,234 acres and cost from the commencement Rs. 5,83,537. The area and cost added during the year were acres 239 and Rs. 29,524 and those deducted acres 687 and Rs. 27,842, respectively, the net result at the close of the year being 11,786 acres of regular plantations at a total cost up to date of Rs. 5,85,219 or about Rs. 50 per acre.

Of the area added 75 acres were retransferred from the Jail Department in South Arcot, and the remainder represents extensions during the year of 155 acres of casuarina in South Arcot, 8 acres of teak and mahogany in Malabar (Nilambúr) and 1 acre of casuarina in South Canara. The planting of teak with mahogany standards in Nilambúr really extended over 108 acres during the year; but 100 acres were included in the returns for 1885-86, as the land had been cleared and got ready for planting.

Besides the extensions as detailed above, there were new plantings or replantings chiefly of casuarina in about 233 acres in the marginally-noted districts in the blank or felled areas already included in former year's returns; thus the actual new plantings during the year amounted to 497 acres as compared with 210 acres (excluding 100 acres in Nilambúr) in the previous year.

	ACRES.
Chingleput	14
North Arcot	135
Trichinopoly	24
Tanjore	60
Total ...	233

Notwithstanding the much larger area planted, the cost of extension and maintenance of the old plantations amounted only to Rs. 29,524 * during the year against Rs. 28,519 in 1885-86. The comparison is much in favor of the year under report and shows that greater economy is secured year by year. The area and cost deducted or excluded during the year were in the following districts:—

* Includes Rs. 249 omitted in the return for 1884-85 in one of the plantations in the Udayárpálaiyam range of the Trichinopoly district.

	ACRES.	Cost. RS.
Chingleput	136	274
Trichinopoly	58	...
North Arcot	493	27,568
Total ...	687	27,842

In Chingleput the Covelong plantation of 2 acres, which cost Rs. 274, was abandoned on account of its bad growth. The remaining 134 acres in that district and 58 acres in Trichinopoly were deducted owing to deficiency found by survey in the areas as formerly estimated. The reductions in North Arcot were due to the

transfer to "Topes" of 11 experimental plantations or gardens erroneously shown under regular plantations in previous years, and to the abandoning and transfer of "Tengal" plantation to unreserved lands (*vide* Board's Proceedings, dated 23rd May 1887, Forest No. 296, Mis.).

The casuarina plantations in Chingleput, North and South Arcot, Trichinopoly, Tanjore, &c., are doing well, and the year's planting may be considered a success, except a small portion at Pettuvaitalai in Trichinopoly, where about 3,000 plants were browsed down by semi-wild cattle. It is found impossible to exclude those beasts, although a strong fence was erected, and further planting had to be abandoned. Drastic measures will have to be adopted.

Casualties in the year's planting and that of previous year's were made good as far as possible. The nursery arrangements were, as a rule, good, particularly in South Arcot, and the requisite number of plants were always readily available.

In Madura 5,500 new pits were dug in the Parappar plantation, but no plants were put out. 7,000 casualties were replaced, but most of them perished. The nursery arrangements were bad and plants not well established. The abandonment of this plantation is contemplated as the site is too exposed and rocky.

The Vannatiparai teak and other scattered plantations in Madura are reported to be in good condition.

In North Coimbatore the planted area of the Bailur sandalwood plantation in Kollegál is found to be 67 acres with 34,472 living trees. To promote the growth of the trees which is stunted, it is proposed to irrigate them from the Oodutorai hulla stream, for which purpose an anicut and channel are being constructed. In this plantation 3 miles and odd of roads and paths from 6 to 18 feet in width were cleared and repaired during the year. One and a half miles of lines between the several years' planting were cleared of grass and 10,600 sandalwood trees pruned. The cooly lines and outhouses were also repaired.

In Malabar (Wynaad) the teak plantations at Kanot (41·50 acres) were weeded and fire-protected during the year, and the growth shows a marked improvement.

In Nilambúr 123,787 teak and 6,472 mahogany seedlings were put out during the year, but there were many casualties in the former owing to insufficient rainfall in June and July ; 30,515 in all had to be replaced. The newly-planted area was weeded four times during the season, and the total outlay on the extension of 108 acres amounted to Rs. 3,343-8-0 against Rs. 3,600 estimated. Rs. 7,546 were realized *per contra* by sale of the trees felled which in former years would have been burnt. The Conservator inspected the new planting in November last and formed a favorable opinion of Mr. Hadfield's work (*vide* Board's Proceedings, dated 1st February 1887, Forest No. 50).

Another 100 acres block No. II in the same locality (Panangode) in continuation of the 1st block has been felled, cleared and burnt off and the necessary supply of seedlings duly arranged for. This extension promises so far to be a great success.

33. *Cultural operations.*—The area under cultural operations at the commencement of the year was 2,536 acres and 100 miles of channel banks costing Rs. 28,460. The area and cost added during the year were acres 436 and Rs. 4,201, respectively, the result at the close of the year being 2,972 acres and 100 miles of channel banks costing Rs. 32,661 in all.

133 acres costing Rs. 148 in South Arcot and 114 acres costing Rs. 190 in Tinnevelly omitted in the previous year's returns owing to the charges having been adjusted under A-VIII (*f*) are now included in the area and cost added during the year. The actual additions during the year under report therefore consisted of only 38 acres in South Arcot [cost not given but adjusted under VIII (*f*)], 119 acres in Tinnevelly (the cost of the latter, viz., Rs. 229, was also debited to VIII (*f*), but shown in Form No. 60 also) and 32 acres cardamom in Malabar (Wynaad).

The cost during the year also includes Rs. 1,141 paid on account of cost of Persian date-palms imported and Rs. 784 paid to Mr. Ferguson of Calicut for rubber experiments as per Board's Proceedings, dated 22nd April 1886, Forest No. 124, Mis.

The 38 acres in South Arcot were ploughed and sown with cashew and babul seeds, but the results were poor owing to the partial failure of north-east monsoon.

In Tinnevelly the operations were chiefly confined to the Kudiraimalai teri reserved land in which 96 acres were sown with 75,000 palmyra nuts. Several herds

of goats were penned in another 23 acres and fed for five or six days upon the full pods of *Acacia planifrons*, and the reproduction from the seed which passed through the stomach of these animals was, the District Forest-officer says, all that could be desired. Some of the seedlings produced died away owing to the unusual drought which ensued, but a sufficient number remain to produce a fully-stocked forest.

The palmyra nuts sown have commenced to show their cotyledons above the surface of the soil. The seedlings produced from sowings since 1879 are, on the whole, in a satisfactory condition, but those from sowings previous to that year are not progressing so favorably owing to the unfavorable situation of the sites chosen.

There were small cultural operations in a few other districts also, viz., in Chingleput about 900 plants of mahogany, nagai, sissu and cork were transplanted and 15,000 palmyra seeds sown along the boundary lines (5 miles) of Tirukalikundram reserve. In North Arcot seeds were sown broadcast in some of the fuel and fodder reserves, and in a few others small pits were made and three or four seeds put in each. In Trichinopoly the gaps along the Coleroon padugais were filled up. In Tanjore about 2,000 pinnai seeds were put down and eighteen jack seedlings and sissu cuttings were planted, besides a few other seedlings of mango, tamarind, &c.

In Malabar (Wynaad) 30 lb. of *Ficus elastica* seeds from Assam were sown in the beds in the botanical garden and in the nurseries at Kanot. In the latter 1,100 plants were successfully raised and are on an average 3 feet high. The plants are quite healthy and vigorous. 2,000 mahogany seeds were sown in Kanot and 800 plants raised, but only 400 of these were alive at the close of the year. The site is probably too high and exposed.

Mr. Morgan, the District Forest-officer, writes: "Both in the case of *Ficus elastica* and mahogany the loss of young plants from insects was very great. Caterpillars attacked the seedlings of the former when in their earlier stages and mowed them down in thousands. These caterpillars were the larvæ of a small grey moth and nocturnal in their habits, only feeding at night and burying themselves by day. They were searched for and destroyed. In the case of mahogany, the young plants were cut down in the seed beds by a gryllus, and thus no less than 400 of those raised were destroyed."

Some *Beesha Travancorica* bamboo seedlings were raised from seed and planted in the nursery. A few of them were destroyed by white-ants and monkeys and the rest are growing vigorously, the plants being over $3\frac{1}{2}$ feet high. Seventeen cuttings of giant bamboo (*Dendrocalamus Brandisii*) were successfully struck and planted out at Kanot, but only eight have survived. One cutting of the golden Burman bamboo planted out is doing well.

A considerable area was sown broadcast with teak seeds in Kanot tuckles (old clearings). In the Periya range about 32 acres were planted up with cardamoms, but only 50 per cent. of the plants put out are now alive.

In Malabar (Nilambúr) 1,039 mahogany seedlings were planted in Panangode in addition to those planted with the teak, and 500 seedlings of Burma bamboos (*Cephalostachyum Pergracile* and *Dendrocalamus Longispathus*) were planted along the river banks.

34. *Topes.*—The number of topes at the commencement of the year as per last annual report was 1,269, covering an area of 18,252 acres and costing Rs. 2,59,914 in all. The figures in North Arcot, Salem, &c., were revised during the year, and, according to the latest information available, the number of topes at the end of the year (Form No. 61) is 1,284 extending over an area of 18,909 acres. The cost of maintenance during the year amounted to Rs. 7,921, but Rs. 25,478, being cost omitted in previous years, *e.g.*, North Arcot, have also now been added, and the total cost from the commencement as far as can be ascertained amounted to Rs. 2,93,313 on 31st March 1886. This is about Rs. 15-8-0 per acre, but does not represent anything like the real expenditure under the old Jungle Conservancy Fund, which is lost in oblivion.

In Chingleput one small tope of 2 acres at the kasba omitted in previous year's return has been included. In North Arcot eleven topes were added from plantation returns, but the correction of numerous other errors in previous year's entries resulted in a net reduction of 22 in the total number of topes and an addition of 90 acres. In Salem 35 topes and 546 acres were newly entered in the return for 1886-87. In

North Coimbatore the area has been increased by 18 acres. In Madura two topes and 2 acres were added. In Tinnevelly one tope of one acre in Sankaranainárkoil kasba sold during the year for Rs. 307 was struck out of the list.

In South Arcot three topes only were leased out, and the fruit and pasture in all the rest were enjoyed free by villagers. In Chingleput and Salem the topes have mostly been leased out and in the latter Mr. Cherry has reduced the number of watchmen. He says the next leases will extend to 3 or 5 years, but in the meantime he is trying to persuade other departments who make use of certain topes or buildings in them to take them over, but they, as a rule, object on the ground that they have no funds from which to provide for their protection.

35. The following is a summary of results under this section :—

	At the commencement of the year.		At the close of the year.		Difference.	
	Area in acres.	Cost.	Area in acres.	Cost.	Area in acres.	Cost.
		Rs.		Rs.		Rs.
Regular plantations	12,234	5,83,537	11,786	5,85,219	— 448	+ 1,682
Cultural operations	2,536 and 100 miles of channel banks.	28,460	2,972 and 100 miles of channel banks.	32,661	+ 436	+ 4,201
Topes	18,252	2,59,914	18,909	2,93,313	+ 657	+ 33,399
Total ..	33,022 and 100 miles of channel banks.	8,71,911	33,667 and 100 miles of channel banks.	9,11,193	+ 645	+ 39,282

But the actual cost incurred during the year was—

	Rs.
On regular plantations	29,275
On cultural operations	3,634
On topes	7,921
Total ...	40,830

which agrees with the amount adjusted during the year under A-VIII (*d*) of Form No. 64.

Every endeavour is being made to check and rectify the figures of areas, expenditure and receipts under plantations, cultural operations and topes, but it is no easy matter especially with regard to the two latter, and our officers find it difficult to spare time for it.

The Conservator invited special attention to the subject of topes during his inspections in Salem, North Arcot and Chingleput, but the Board of Revenue do not approve of village heads being held responsible for their safe keeping, although it was formerly considered part of their duty.

(*g*) *Works of Improvement.*

36. Works of improvement not treated of under other sections of this chapter may be said to be fencing and such like, of which there was not much done during the year. So far as they can be gathered from the district reports, the following may be entered under this head :—

	Cost. Rs.
Chingleput—	
Fencing a portion of the Kambakam reserve, 1½ miles	3
North Coimbatore—	
Fencing round with Mulkiluvai (*Balsamodendron Berrii*) the greater portion of block No. 1 of Arachalur fuel and fodder reserves ...	194
Repairing fence round No. 2 block in do. do. ...	104
Eradicating a portion of the prickly-pear in do. do. ...	79
Tinnevelly—	
Fencing round the Kongaroyakurchi, Reserved Land 1,520 yards ...	65
Total ...	445

(*h*) *Experiments and Exotic Trees.*

37. Experiments with exotics, &c., have been continued as usual. The results are on the whole satisfactory. The several experiments are detailed in Appendix A in alphabetical order in order to facilitate future reference.

I. Communications and Buildings.

38. The following statement exhibits the "roads and bridges" constructed and repaired during the year, together with their cost :—

District.	New works.	Number of miles.	Cost.	Repairs.	Number of miles.	Cost.
			Rs.			Rs.
Chingleput ..	....	..	..	Kambakam hill road ..	..	352
North Arcot ..	A road from Kámesvaram to forests in Gudiyátam taluk	8	640	....	30	283
	and another from Mámandúr to Tirupati in Chandragiri taluk.	6½	640			
South Arcot ..	Experimental single wooden rail tramway in Shonangkuppam plantation.	⅜	63	....	..	..
	Tenmalai ghât trace put into road form and rocks blasted and removed.	1½	300	Old trace repaired.	½	98
North Coimbatore.	....	..	..	....	..	180
South Coimbatore.	A road near Kolikuttu Kanavoy in No. IV, Udamalpet range.	⅜	212	Repair and improvement of the timber slip from Vendamudi.	..	72
				Repairs to 53 bridges on three roads.	..	53
				Repairs and upkeep of other roads.	13½	365
Madura ..	New roads and inspection paths in Parappar block.	..	55	Improving and repairing the Alagarmalai road.	..	130
	Completion of the road connecting Pumbarai road with Gundan Shola, &c.	..	169	Improving the road above the acacia plantation for conveying wood to the wire rope shoot.	..	28
	Wire rope shoot for conveying wood.	..	225			
Tinnevelly ..	Kotanteri forest road, Vásudevanallúr hills, recleared and cut.	4	1,061	Kotanteri road	3½	74
				Pápanásam road	21½	609
				Kalakód	8	170
	Kadayanallur bridle road cut.	6	1,453	Inspection paths	20	250
	Cart road from Pachimadankovil.	3½	794	Foot of Alwárkurchi hills to the watershed boundary..	3½	285
	Inspection path at a cart road gradient from Kariar to Kannikutti odai.	5	176	Easing gradients and bridge repairing, &c.	..	262
Malabar (Wynaad and Pálghat.)	Inspection path in Chenatnair.	8½	174	....	7½	39
	Temporary road in Chedlet and 31 bridges, &c.	18	120	....	..	..
Malabar (Nilambúr) ..	Cart road and compartment roads at Panangode.	1	162	....	..	30
	Total ..	62½	6,244	Total ..	108½	3,280

The total expenditure, viz., Rs. 9,524, exceeds that of the previous year by Rs. 2,500. The increase is due to greater progress made during the year in the construction of new roads, especially in North Arcot and Tinnevelly.

39. *Buildings.*—It will be seen from the subjoined statement that better progress was made during the year chiefly in North Arcot and South Coimbatore in the constructions of new buildings, the total expenditure under A. VII (*b*) exceeding that of the previous year by Rs. 1,370 :—

District.	Construction of new buildings.	Cost.	Repairs to existing buildings.	Cost.
		Rs.		Rs.
Chingleput ..	2 Tannah sheds	31	2 Rest-houses and 4 tannah sheds ..	77
	1 Rest-house at Vardaiyapalaiyam; foundation laid and wood purchased.	23		
North Arcot ..	1 Ranger's office at Chandragiri ..	1,050	6 Rest-houses and 5 tannah sheds,&c.	888
South Arcot ..	....	..	12 Rest-houses and out-houses ..	239

District.	Construction of new buildings.	Cost.	Repairs to existing buildings.	Cost.
		Rs.		Rs.
Salem	....	..	1 Forest bungalow, 1 shed and 6 Range offices.	735
Trichinopoly ..	1 Range office at Jayankondasholapuram	150	5 Forest bungalows in the Kulitalai range.	90
Tanjore	1 Forester's house at Tirumalaivasal.	250		
North Coimbatore ..	3 Rest-houses and 6 tannah huts ..	1,140	3 Rest-houses, 1 Rangers' house, 1 Forester's house, 2 Ranger's offices and one sandalwood store, &c.	783
South Coimbatore ..	1 Bungalow for the District Forest-officer and 1 Ranger's house both at Mount Stuart.	1,842	4 Bungalows, 1 Ranger's house, 1 tannah shed and a few huts.	234
	1 Bungalow for the District Forest-officer and 1 Ranger's house both at Setumadai.	2,955		
	1 Guard's house at Setumadai.	129		
	1 Depôt shed at Coimbatore re-erected	250		
Madura	3 Temporary rest-houses	179	3 Rest-houses, 4 Guards' huts and 2 tannah huts and certain other repairs.	89
	1 Permanent rest-house at Parappar extended and improved.	580		
	1 Depôt-keeper's hut and store-room at Kodaikánal.	102		
	1 Cooly hut and one tannah hut ..	30		
Tinnevelly	1 Guard's house and one tannah ..	51	1 Sub-Assistant's house, 4 Rangers' houses, 15 Guards' and 35 tannah huts.	599
Malabar (Wynaad and Pálghat)	Construction of Forest-officers' quarters, kitchen, stables and verandah.	1,183		
	Temporary buildings including out-houses "Dindimal" and "Kuppadi."	296		
	1 Forester's serambi'	254		
	1 Elephant's shed and Panthi ..	244		
	1 Mahout lines	150		
	Karimalai rest-house	158		
	1 Rest-house at Doni	75	3 Inspection sheds	120
Malabar (Nilambúr) ..	1 Tiled inspection shed at Panangode.	191		
	1 Thatched elephant shed at Nilambúr.	141		
South Canara ..	....	..	....	135
	Total ..	11,454	Total ..	3,989

Greater progress was expected during the year both under roads and buildings, but owing to the attention of the District and Range officers having been almost entirely absorbed in the selection, settlement and demarcation of reserved forests, the constant change of subordinates in Wynaad and the non-acquisition of the proposed site for the Forest-officer's bungalow in Nilambúr, about Rs. 6,900 of the budget grant under the former head and about Rs. 8,400 under the latter remained unexpended at close of the year chiefly in South Arcot, Madura, Wynaad and Nilambúr.

Immediately forest settlement and demarcation are completed, *e.g.*, in South Coimbatore, we must set to work in earnest in improving the communications so as to be able to work the forests in an economical and rational manner.

CHAPTER V.

YIELD AND WORKING.

Section 1—Departmental Operations.

40. The remarks in paragraph 57 of the last annual report may be taken to apply to the timber and stock returns of this year also. The Code will have to be revised

so that the annual returns may be checked and compiled in the same office as the monthly ones.

41. The number of trees felled by Government agency (Form No. 68) was as follows as compared with that felled in 1885-86 :—

—	1885-86.	1886-87.	Difference.
	NO.	NO.	
Teak	1,873	2,756	+ 883
Blackwood	79	797	+ 718
Vengai and other miscellaneous timbers.	9,186	4,556	— 4,630
Sandalwood	40	48	+ 8
Total ..	11,178	8,157	— 3,021

The increase in teak and blackwood occurred in Malabar (Wynaad and Pálghat) and the decrease in miscellaneous timbers was under casuarina fellings in Chingleput.

42. The outturn of trees felled and the quantities of other produce, &c., collected by Government agency during the year (Form No. 69) were as follows as compared with those of 1885-86 :—

—	1885-86.	1886-87.	Difference.
	C. FT.	C. FT.	C. FT.
Teak	83,713	105,797	+ 22,084
Blackwood	5,730	19,613	+ 13,883
Vengai and other miscellaneous timbers.	57,660	51,522	— 6,138
Red sanders	Tons 274	Tons 50	Tons — 224
Sandalwood	„ 24	„ 11	„ — 13
Firewood and charcoal	10,133	12,251	+ 2118
Bamboos	No. 64,228	Tons 17	Tons +17
		No. 39,861	No. — 24,367
Minor produce	Tons 68	Tons 443	Tons +375
or approximately in Tons ..	13,800	16,600	+ 2,800

43. The collections in 1886-87 are thus considerably in excess of those for 1885-86. The quantities of timber, &c., received in and issued from sale depôts during the year (Form No. 70) were as follows, as compared with those so removed and issued in 1885-86 :—

Description.	Collected during		Issued during		Difference in	
	1885-86.	1886-87.	1885-86.	1886-87.	Collection.	Issue.
Teak .. .. .. C. ft.	16,393	22,599	17,895	20,714	+ 5,606	+ 2,819
Teak saplings .. .. No.	53,641	49,966	54,361	285	— 3,675	— 54,076
Blackwood .. .. .. C. ft.	685	913	2,472	2,973	+ 228	+ 501
Vengai and other miscellaneous timber .. .. „	46,278	22,383 / NO. 4,419	44,022	50,077	—23,895 / NO. 4,419	+ 6,055
Red sanders .. .. Tons.	121	50	217	50	— 71	— 167
Sandalwood .. .. „	23	11	60	14	— 12	— 46
Firewood .. .. .. „	1,683	1,517	1,641	1,430	— 166	— 211
Bamboos .. .. .. No.	20,170	33,998	20,275	26,212	+ 13,828	+ 5,937
Minor produce .. .. Tons.	14	27	25	26	+ 13	+ 1
or approximately in Tons ..	6,800	6,100	7,000	3,200	— 700	— 3,800

NOTE.—The excess under "issues" over "collection" was from stock of previous years.

The results of the year are on the whole satisfactory. The transport of timber to sale depôts, especially in South Coimbatore, is often difficult to manage and much attention on the part of the officers concerned and a large outlay of money are required.

44. Form No. 71 exhibits the particulars of sales (*a*) direct from the forest, and (*b*) from the sale depôts, confiscated wood being shown according to its disposal. The

results of the sales during the year in money value were, as compared with those of the preceding year, as follows :—

Budget head of receipts.	1885-86.			1886-87.			Difference.		
	Sold from forests.	Sold from depôts.	Total.	Sold from forests.	Sold from depôts.	Total.	Sold from forests.	Sold from depôts.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I (*a*) Timber	39,186	95,496	1,34,682	29,263	31,927	61,190	—9,923	—63,569	—73,492
I (*b*) Firewood and charcoal ..	*23,810	6,967	30,777	24,896	6,160	31,056	+1,086	—807	+279
I (*c*) Bamboos	476	668	1,144	2,171	357	2,528	+1,695	—311	+1,384
I (*d*) Sandalwood	2,300	13,972	16,272	..	5,057	5,057	—2,300	—8,915	—11,215
I (*e*) Grass and other minor produce.	13,264	44	13,308	25,193	7,256	32,449	+11,929	+7,212	+19,141
III Confiscated wood	4,837	974	5,811	2,737	160	2,897	—2,100	—814	—2,914
Total ..	83,873	1,18,121	2,01,994	84,260	50,917	1,35,177	+387	—67,204	—66,817

The result of sales in the *forest* during the year exhibits scarcely any difference as compared with the previous year, but the sales from *depôts* are less than those of 1885-86 by about Rs. 67,000 due chiefly to the non-disposal of a large stock of teak saplings in Malabar (Nilambúr), where prices offered were below the average, and the District Forest-officer suspecting combination amongst the dealers, declined to accept them.

No timber was supplied to the Public Works Department during the year for reasons given in paragraph 60 of last year's report.

1,089 tons of fuel in South Arcot and 2,654 tons in Trichinopoly were supplied to the South Indian Railway and 106 tons in Salem to the Madras Railway in addition to the supplies to the Madras Railway Company referred to under section 2.

45. Subjoined abstract shows in one view the quantities of timber and other produce collected and sold from forests and sale depôts during the year :—

——	Teak.	Teak saplings.	Rose-wood or black-wood.	Vengai and other miscel-laneous timbers.	Red sanders.	Sandal-wood.	Fire-wood and charcoal.	Bamboos.	Minor produce.
	C. FT.	NO.	C. FT.	C. FT.	TONS.	TONS.	TONS.	NO.	TONS.
Balance on 1st April 1886 ..	48,256	7,225	5,612	*53,848	..	15	1,240	19,977	2
Collected during 1886-87 ..	105,797	66,810	19,613	51,522	50	11	12,250	39,861	443
Excess found on re-measurement on receipt at depôt	13,000							Tons 17	
Total ..	167,053	74,035	25,225	105,370	50*	26	13,490	59,838 Tons 17	445
Sold in forests	14,161	8,207	7,779	31,555	..	..	10,850	22,968 Tons 16	416
Sold from depôts	16,249	26	1,450	49,904	50	14	*1,383	26,212 lbs. 1,344	26
Otherwise disposed of † ..	7,288	..	2,225	1,409	..	..	53	2,545 Ton 1	..
Total ..	37,698	8,233	11,454	82,868	50	14	12,286	51,725 Tons 17	442
Balance in stock on 31st March 1887	129,355	65,802	13,771	22,502	..	12	1,204	No. 8,113	3

* 27,445 cubic feet added by measurement of logs entered in previous year's returns only in numbers.
† Written off; used departmentally, &c.

NOTE.—It is impossible to exhibit saplings, red sanders, sandalwood, bamboos and minor produce in cubic feet as desired by the Government of India. Saplings and poles must be exhibited by numbers, and the rest by weight.

46. The value of stock in sale depôts (Form No. 73-A) at the beginning of the year was Rs. 16,019 and that at its close Rs. 64,927 showing an increase in value of stock of timber of Rs. 48,908 at close of the year. The increase is mainly in the Kallai depôt where the teak saplings remain unsold for the reason given in paragraph 44.

47. Form No. 73 B. shows the value of live stock, stores, tools and plant; but as this is the first year that a statement in this form is submitted, the details for certain

districts are incomplete. The value of stock at the beginning of the year, so far as could be ascertained, was Rs. 34,206 and that at close of the year Rs. 41,971, thus showing an increase in value of Rs. 7,765 during the year.

Section 2—Removal of produce by purchasers.

48. The total quantities of timber and other produce cut, collected and removed from the forests by purchasers during the year (Form No. 72) were as follows, as compared with those so cut, collected and removed in 1885-86 :—

—	1885-86.	1886-87.	Difference.
	C. FT.	C. FT.	C. FT.
Miscellaneous timbers	854,302	1,051,972	+ 197,670
Do.	No. 1,126	No. 490	— 636
Firewood and charcoal	Tons 132,580	Tons 182,263	+ 49,683
Bamboos	,, 25,747	,, 29,058	+ 3,311
Do.	No. 67,865	No. 77,113	+ 9,248
Minor produce	Tons 3,598	Tons 10,160	+ 6,562 or
Approximately in Tons ..	179,500	243,000	+ 63,500

A districtwar abstract will be found at the end of Form No. 72.

The quantities removed are considerably in excess of those of the preceding years, as is the revenue realized under all sub-heads except II (*b*) under which there is a small decrease of Rs. 333. The figures are as follows:—

—	1885-86.	1886-87.	Difference.
	RS.	RS.	RS.
II (*a*) Timber	72,864	1,00,217	+ 27,353
II (*b*) Firewood and charcoal ..	1,65,332	1,64,999	— 333
II (*c*) Bamboos	57,395	68,196	+ 10,801
II (*d*) Grazing and fodder grass ..	7,914	35,665	+ 27,751
II (*e*) Other minor produce ..	1,35,443	1,71,038	+ 35,595
Total ..	4,38,948	5,40,115	+ 1,01,167

All the districts except South Canara contributed towards the above increase. The largest revenue (Rs. 1,13,500) under this system was realized in Salem; North Arcot comes next with a revenue of Rs. 92,900 and North Coimbatore stands third with Rs. 74,500. In Madura Rs. 59,100 was collected and in the remaining districts the collections ranged from Rs. 1,125 in Nilambúr to Rs. 44,100 in Tinnevelly.

In North Arcot 10,683 tons of junglewood and 301½ tons of casuarina wood fuel were supplied to the Madras Railway through contractors or middlemen, realizing Rs. 15,753 and Rs. 1,357, respectively.

1,734 tons of engine fuel were supplied in Salem realizing Rs. 1,832. This was probably small lighting wood. In addition to these quantities, considerable supplies were, it is believed, made both in Salem and South Coimbatore, through contractors, which do not appear separately in the district returns as they ought.

Section 3—Free grants of forest produce.

49. Removals of timber, &c., during the year on free permits issued by Forest-officers were as follows:—

—	Timber.	Firewood.	Bamboos.	Minor produce.
	C. FT.	TONS.	TONS.	TONS.
Chingleput	1,220	..	6½	4
South Arcot	4,454	5	..	..
Salem	1,130	5	12	..
Madura	330	..	..	..
Total ..	*7,134	10	18½	4

* Equal to about 143 tons.

The grants were chiefly for building purposes and their money value may be estimated at Rs. 3,000. In North Arcot the District Forest-officer gave a few permits for ass and head-load of fuel and bamboos to certain "Koravars" whom the Superintendent of Police was encouraging to settle down. A few permits were also given to ryots reported to be too poor to purchase building materials, but the quantities are not stated.

In North Coimbatore arrangements were made, with the Collector's approval, for the free removal of timber, bamboos, &c., from the reserved lands, by hill and *adivaram* villagers for agricultural purposes.

No free permits were issued in Tinnevelly, but removals of head-loads of dead-wood for *bonâ fide* domestic consumption were permitted on the lower slopes of the ghâts (reserved lands) as usual.

In a few instances in South Canara free permits for small quantities of forest produce were issued for either a charitable or a religious purpose, but the quantities are not stated.

50. It should be clearly understood that, although the quantity and value of free grants appears so small, the bulk of the junglewood and firewood required by the people for domestic and agricultural purposes is obtained free of payment and without any permit from unreserved lands. It is impossible to frame estimates of any accuracy of the quantities so removed and their value, but they must be very large, especially if we add the value of grass, leaves for manure, &c., &c.

CHAPTER VI.

Financial Results.

51. The revenue and expenditure of the Circle as per Form No. 64 compare with the results of 1885-86 as follows :—

	Revenue.	Expenditure.			Surplus.
		A.	B.	Total.	
	RS.	RS.	RS.	RS.	RS.
1885-86	6,52,318	2,34,006	3,00,608	5,34,614	+ 1,17,704
1886-87	6,94,535	3,80,192	3,40,529	7,20,721	— 26,186
Difference ..	+ 42,217	— 1,46,186	— 39,921	— 1,86,107	..

52. The variations under revenue in the several districts were in round numbers as follows, as compared with the former year :—

	RS.		RS.
North Arcot	+ 4,000	Salem	— 6,000
South do.	+ 8,500	Wynaad and Pálghat ...	— 12,000
Trichinopoly	+ 16,000	Nilambúr	— 63,000
Tanjore	+ 1,500		
North Coimbatore ...	+ 28,000		
South do. ...	+ 10,000		
Madura	+ 24,000		
Tinnevelly	+ 14,000		
South Canara	+ 17,000		
Total ...	+ 1,23,000	Total...	— 81,000
Net result ...	+ 42,000		

In South Arcot, Trichinopoly, South Coimbatore, Tinnevelly and South Canara, the increase accrued both under departmental operations and removals by purchasers. In the remaining districts it was principally under the latter. The decrease in Salem may be said to be purely nominal and attributable to a considerable old stock of sandalwood having been sold in 1885-86 which raised the revenue of that year.

The decrease in Wynaad is due to constant changes in and neglect of work by the local executive, absence of the District Forest-officer on medical certificate during the last quarter of the year, and default of contractors to remove and pay for the logs on the plea that they were badly prepared.

In Nilambúr the decrease is attributable solely to the apparent absence of a good demand for teak saplings and the consequent non-disposal of a large stock. The District Forest-officer thinks there was a combination amongst dealers to keep down prices, but on the other hand there is little doubt that the larger saplings which we are now placing on the market, and for which we expect higher rates, are not so much in demand as the smaller ones, being neither "timber" nor "poles."

Be this as it may, it was thought better to make a stand for the usual rates which once reduced might not recover, and the market for the season was lost.

53. The revenue as compared with the regular estimate for the year exhibits important variations in the undermentioned districts:—

	Rs.		Rs.
North Arcot	+ 7,000	South Arcot	— 15,000
Trichinopoly	+ 6,000	Salem	— 12,500
North Coimbatore ...	+ 12,000	South Coimbatore ...	— 22,000
Madura	+ 10,000	Wynaad and Pálghat ...	— 26,500
Tinnevelly	+ 7,000	Nilambúr	— 38,000
		South Canara	— 22,000
Total ...	+ 42,000	Total ...	— 1,36,000
Net result ...	— 94,000		

The increases in the several districts and the decrease in both divisions of Malabar are due to causes already stated in the preceding paragraph.

The decrease in South Arcot occurs both under departmental sales and removals by purchasers. In the former case it is attributed by the District Forest-officer chiefly to the fact that selection and settlement of reserved forests engaged the whole attention of Range-officers, &c., and that little time was left to arrange departmental operations better. In the latter it is chiefly due to the Treasury Department not having credited to this department about Rs. 12,000 on account of tree rents. This should really still be done under the spirit of the Government Orders subsequently issued on a reference through this office.

The decrease in Salem occurs under removals by purchasers and is accounted for by non-collection of grazing fees, the restrictions placed upon railway fuel cutting pending surveys, division of reserves into blocks and compartments and framing of working plans, and also to the writing off the account, as irrecoverable, of a sum of Rs. 3,800 representing arrears of rent on fruit and palmyra trees expected to be realized during the year.

The decrease in South Coimbatore is owing to the difficulty experienced in carting the budgeted quantity of teak timber to sale depôts, the working season having been unusually feverish owing to the partial failure of north-east monsoon. The teak forests in this division cannot be worked satisfactorily and with any advantage unless early arrangements are made to lay out a tramway line to ensure getting out the timber regularly and at a reduced cost.

The District Forest-officer rightly points out that we can then supply the Public Works Department, the Railway and other departments at considerably lower rates than those obtaining in the local market. Large quantities of timbers are available both in the Government and leased forests, whilst private forests in and around the district are being fast denuded. The department will soon be in a position to monopolize the whole timber supply, and the revenue in South Coimbatore alone will, in the District Forest-officer's opinion, amount to Rs. 2,00,000 under proper management and systematic working.

In South Canara the decrease occurred chiefly under departmental sales of timber and minor produce and is stated to be due to default of timber contractors, slack demand, a short crop of certain minor products and want of demand for myrabolams, &c.

The Conservator considers that the explanations from South Arcot, Wynaad and Pálghat, and Nilambúr justify the short revenue which, although much to be regretted,

is attributable to circumstances over which the District Forest-officers had little or no control.

He regrets that he cannot regard the short revenue in Salem, South Coimbatore and South Canara in the same light. The non-levying of grazing fees, short supplies to the Railway Company, difficulties in bringing timber to market, absence of demand and short crops of minor produce could and ought to have been foreseen when the regular estimates were framed by the district officers in the month of July and figures revised accordingly. The Conservator will be glad if the Board and Government will kindly impress on Collectors and District Forest-officers the necessity of being more careful in future to justify the confidence which he must naturally place in their figures which are presumed to be based on carefully-matured and moderate estimates.

54. *Expenditure.*—The variations under A, "Conservancy and Works" as compared with 1885-86 are as under:—

		RS.
I.—Timber, &c., removed by Government agency ...	+	33,000
II.—Timber, &c., removed by purchasers	+	10,000
V.—Rent of leased forests	+	73,000
VII.—Communications and buildings	+	4,000
VIII.—Demarcation, improvements and extension of forests	+	26,000
Total ...	+	1,46,000

The increase under I is due to larger collection of timbers, &c., both in the forests and sale depôts as shown in Chapter V, and that under II to increased commissions, &c., on larger receipts *per contra*. Under V it is due to the payment of Rs. 75,000 to the Nambidi of Kolangód on the revision of the Tekadi forest lease as stated in paragraph 15 of Chapter III. The increase under VII has already been explained in paragraphs 40 and 41 of Chapter IV, while that under VIII is attributable to greater progress made during the year in demarcation, acquisition of lands, surveys, planting and cultural operations and fire-protection as fully explained elsewhere.

55. The expenditure under A. compares as follows with the revised budget estimate for the year:—

		RS.	RS.
Under	A.I	— 21,000	
	A.II	— 6,500	
	A.V	...	+ 74,500
	A.VII	— 16,000	
	A.VIII	— 27,000	
	Total ...	— 70,500	+ 74,500
	Net result	+ 4,000	

The short expenditure under A.I was chiefly caused by the non-collection of the greater portion of the budgeted quantity of red sanders roots in Chingleput and North Arcot for want of sufficient labor and the carting of timber in South Coimbatore and South Canara having been considerably less than was anticipated owing to default on the part of contractors.

Under A.II the short expenditure is not very large, and it is difficult to estimate accurately under this head, as both the revenue and expenditure depend on the demands of consumers and purchasers. The decrease under A. VII has already been explained in paragraphs 40 and 41 of Chapter IV.

Under A.VIII the savings were chiefly under demarcation and are attributable to the constitution of reserved forests not having progressed sufficiently to be followed by demarcation work owing to delay in the publication of final notifications, &c. There was considerable short expenditure under surveys due to delay in arranging for special forest surveys.

There was also short expenditure under plantations, fire-protection and other works due to certain extension of plantation in Tanjore not having been undertaken, and the full complement of fire-patrols and temporary watchers, &c., budgeted for (*e.g.*, in North Arcot) not having been entertained.

56. The expenditure under B. Establishment as compared with that of 1885-86 exhibits an increase of Rs. 40,000 during the year chiefly caused by the permanent and temporary promotions of several superior officers in the Circle to higher grades and the appointment of an additional Special Forest Settlement-officer. As compared with the revised budget estimate for the year, the expenditure under B. shows a small saving of Rs. 5,500, of which Rs. 4,000 will have to be transferred to A, "Conservancy and Works" to cover the excess outlay thereunder.

57. The net result is a deficit of Rs. 26,000 instead of an estimated surplus of Rs. 66,000 which was, however, to be devoted to the advance to the Kolangód Nambidi, and so result in an equilibrium. If this large payment (Rs. 75,000) which was not foreseen when the regular estimates were framed and is really capital expenditure had not been made, there would have been a surplus of Rs. 50,000 in round figures or, had the revenue come up to the estimates, of nearly $1\frac{1}{2}$ lakhs. As it is, if the increase of Rs. 49,000 in the value of stock of timber and other forest produce (Form No. 73 A.) and of Rs. 8,000 value of live stock, &c., (Form No. 73 B.) be taken into account, there will be a profit on the year's working of about Rs. 31,000.

58. The financial results of (*a*) departmental working, (*b*) removals under permit system and (*c*) expenditure on protection and improvement of forests as shown in Form No. 67 are calculated on the same principles as last year, viz., those adopted by the Board when they administered the forests in 1872—75. The following is an abstract :—

Timber, &c., removed by Government Agency.		Other Revenue.		Formation, protection and improvement of Forests.	Total.	
Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Rs. 1,43,201	Rs. 1,72,460	Rs. 5,51,334	Rs. 2,71,423	Rs. 2,76,838*	Rs. 6,94,535	Rs. 7,20,721

* Includes Rs. 75,000 paid to Nambidi of Kolangód for Tekadi lease.

It will be observed that the charges under Departmental working, including the proportion of B. charges calculated as prescribed, exceed the receipts, which is due to the considerable stock of timber, &c., remaining unsold and to increased expenditure under head VI, Purchase of live stock.

59. *Outstandings and liabilities on account of contractors and disbursers (Form No.* 65).—The amount due to the department at the beginning of the year was Rs. 26,392. During the year the payments to disbursers and contractors, &c., amounted to Rs. 4,07,166 and recoveries in value of work, &c., to Rs. 4,05,655. The amount which remained outstanding and unadjusted at close of the year was Rs. 27,903, which is not unsatisfactory considering the heavy outlay during the year.

60. *Outstandings on account of revenue (Form No.* 66).—These were Rs. 33,301 at the commencement of the year. The amount of sales, &c., during the year was Rs. 6,91,840 and the amount actually collected Rs. 6,94,535 which leaves Rs. 30,606 outstanding at close of the year. The major portion of this amount (Rs. 20,400) is represented by irrecoverable arrears of rent of fruit trees, &c., a legacy from the late Jungle Conservancy Fund in North Coimbatore, the writing off of which amount does not appear to have been sanctioned during the year, though application is said to have been made to the Board by the Collector.

CHAPTER VII.

General Remarks.

61. *Superior and Subordinate Staff.*—The paucity of officers in the superior staff has been a source of constant trouble, and much difficulty has been experienced in arranging for the duties of absentees on leave, &c. One or more superior officers are needed for special duty in connection with forest surveys and working plans, but the

Conservator cannot see his way to find them. The one trained officer sent out by the Secretary of State in 1886 was posted to the Northern Circle, whose wants were felt to be even greater than those of the Southern Circle. Suggestions are now before Government for the filling up of the existing vacancy in the first grade of Deputy Conservators and the strengthening of the superior staff generally. Great difficulty is still experienced in finding suitable men for appointment as Foresters, Rangers and Sub-Assistant Conservators.

62. *Forest Settlement-officers.*—Mr. Wolfe-Murray, C.S., Special Forest Settlement-officer, was replaced by Mr. A. M. Jones, Deputy Collector, in January last. The latter has been at work in Salem, North and South Arcot, while Deputy Collector Mr. Pinto has had charge of the forest settlement in Chingleput and Tinnevelly and latterly in Madura also, as the Divisional Revenue-officer (Sub-Collector) could not complete the work in that district. The settlement in Tanjore and Trichinopoly has also been allotted to Mr. Jones. Mr. Castle-stuart Stuart, C.S., completed the forest settlements in the Wynaad, but appeals have been lodged against some of his decisions which await disposal by the District Court. The settlement of Kanot in the Kóttayam taluk was transferred to the Sub-Collector of Malabar, who completed the inquiry into claims before the close of the official year. South Canara is the only district where settlement has been left in the hands of Divisional-officers of the Revenue Department, and work has not progressed very satisfactorily in that district. The progress made by special officers in other districts is fully explained in paragraph 6 of Chapter II.

63. *Forest Conservancy in Tanjore.*—Selection of areas to be reserved and their settlement necessitated the appointment of a District Forest-officer for this district, and it was deemed best to place the District Forest-officer, Trichinopoly (Mr. Stanbrough), in charge in addition to his other duties.

64. *Forest School.*—One Ranger 4th grade, two Rangers 5th grade, and two Foresters 2nd grade, sent to the Forest School, Dehra Dún, in the preceding year completed the course of training successfully and returned from the school in March last with Forest Ranger's certificate. The Ranger 4th grade, has been promoted to the 2nd grade and the two 5th-grade men to the 4th grade, whilst the two Foresters have been appointed Rangers 5th grade, on probation.

During the year under report Mr. Marshall, Probationary Sub-Assistant Conservator, one Ranger and four Foresters were sent to the school and their progress is reported to be satisfactory. The course of training at the school was revised and made more practical at the conference of Forest-officers held there in October last.

65. *Rules under Act V of* 1882 (*The Madras Forest Act*).—Certain amendments proposed in the rules under section 63 of the Act to better regulate the procedure of Forest Settlement-officers were approved by Government and duly notified. The timber transit rules sanctioned for certain districts are reported to have worked smoothly so far as they have been enforced. The areas to which they are to apply in future have been scheduled, but the Government have ordered the rules generally to be revised and supplied.

The republication of the Act and rules in the shape of a handy manual was taken in hand and the work nearly completed. Several amendments have been made in the Departmental Code.

66. *The Giant Riding Saw Machine.*—This continues to work satisfactorily in South Arcot where, in the case of long casuarina poles of medium girth, it is found to work easier and turn out more work than the country saw; the latter, however, answers better when crooked small wood such as babul, &c., has to be converted.

67. *Service Books.*—So far as can be gathered from the reports of the district officers, the orders regarding correct maintenance of service books of subordinates have been duly attended to in the great majority of cases.

68. *Maps.*—Much has already been said on this subject in Chapter III. The District Forest-officer, Salem, writes—"Mounted book-form maps of each taluk, with all the different classes of reserves and the names of important hills and streams marked in, have now been supplied to each Range-officer and are most useful. Endeavours are being made to get the Survey office to supply us with copies of them."

In Malabar (Wynaad) maps of the Begur, Kanot, Wálayár and Chenatnair forests have been prepared and furnished by the Survey Department, but the District Forest-officer reports that they are not quite complete and that some additions and alterations will have to be made.

69. *Boundary disputes.*—The appeal suit in the matter of Kalrayan boundary dispute in South Arcot was decided by the District Judge in favor of Government.

The Selandampalli boundary dispute in the Tirupatúr Taluk of the Salem District was also decided in favor of Government.

It has been resolved by Government to prefer an appeal to the Privy Council against the decision of the High Court in the matter of the Singampatti forest suit in Tinnevelly, and the Government Pleader is preparing the appeal.

70. *The Malabar Forest Charge.*—The forest charges in the Malabar District have been re-arranged (with effect from 1st April last) into North and South Malabar, the former to include the Government forests in the Malabar-Wynaad, Kanot and neighbourhood, the head-quarters being at *Manantoddy*, and the latter the Nilambúr forest, the Kallai depôt, and the Pálghat range which embraces all Government forests in the Pálghat and Walawanád taluks, the head-quarter being at *Nilambúr*.

71. *Elephant-catching operations.*—At the instance of the Conservator the Government were pleased to cancel their order prohibiting further captures of wild elephants.

In Malabar (Wynaad) 4 wild elephants were captured during the year and all successfully trained. One (a young one) died from natural causes, one was sent to Nilambúr and the remaining two retained in Wynaad.

The District Forest-officer reports that the cow elephant captured in 1885 has done good work and is very docile.

In Malabar (Nilambúr) 2 young tuskers were captured during the year in the Nellikutta reserved forests. They are doing well. The 2 cow elephants caught in the preceding year were valued and the proprietor's share of one-fourth, which amounted to Rs. 626, was duly paid and adjusted in accordance with the terms of the agreement.

72. *The valuation of standing stock of timber and other forest produce on dharkasted lands.*—That such valuation should invariably be made by forest officials, or that definite rules or instructions should be laid down for the guidance of Revenue-officers is proved by a case in Trichinopoly which happened during the year.

The standing stock on a certain tank bed which was to be alienated for cultivation purposes had been actually disposed of by auction by the Revenue-officers for Rs. 350. The matter attracted the District Forest-officer's attention who at once communicated with the Collector and pointed out that, in his opinion, the stock was worth about Rs. 3,000. The Collector thereupon cancelled the sale and directed the District Forest-officer to have the stock cleared and sold departmentally. Accordingly, before the close of the year, about 700 tons of railway and 42 tons of ordinary fuel had been cut and sold for Rs. 2,957. The District Forest-officer states that about 300 tons remain to be disposed of, so that his original estimate will be fully justified.

73. *Health of Establishment.*—The health of the officers of the superior staff continued to be fairly good, only Mr. Morgan having to avail himself of privilege leave on medical certificate towards the close of the year owing to repeated attacks of Wynaad fever and complication resulting from it.

The subordinate staff again suffered severely. Messrs. Eber Hardie and Howell, Sub-Assistant Conservators, had to take leave on medical certificate from Tinnevelly and Wynaad, the latter having been seriously ill.

Three Rangers and three Foresters besides several Forest Guards and Watchers died; also several Mahouts and coolies in the Wynaad where even the Kurumbers suffered severely from fever, small-pox and dysentery. In all districts except Chingleput, South Arcot, Tanjore and Tinnevelly, fever was very prevalent amongst the departmental establishments and contractors' work-people.

The Javadi Hills in North Arcot were specially feverish.

74. *Conduct of the Establishment.*—All the officers of the superior staff and most of the Sub-Assistant Conservators and Range-officers worked well and it would be invidious to particularize.

One Ranger, Qadir Husain Sahib, was prosecuted and found guilty of criminal breach of trust. One permit-issuing officer in Salem and another in Trichinopoly was found guilty of criminal misappropriation of Government money. One Forester in Madura absconded, and another in the same district is under trial in connection with a forest theft case.

75. *Administration of the department generally.*—The remarks in last year's report apply equally this year.

The Conservator's office was removed to Chepauk towards the close of the year, but the accommodation is inadequate and inconveniently arranged, and the move has in no way reduced the pressure of correspondence which is mainly due to the system of multiple control.

Proposals are before Government which, it is hoped, if adopted, may have the effect of improving the organization and permitting Forest-officers of all classes to devote more time to their proper professional duties in the forest.

MADRAS,
28th July 1887.

APPENDIX A.

DETAILS OF EXPERIMENTS WITH EXOTICS DURING AND UP TO THE CLOSE OF THE OFFICIAL YEAR 1886-87.

Dates.—16½ lb. of seed of *Phœnix dactylifera* from Busrah were distributed to eight districts or divisions in this Circle. Judging from the results reported from all divisions (except North Arcot and South Coimbatore), it would appear that the attempt to raise date-palms from seed has not proved very successful so far, except perhaps in Nilambúr, where about 200 seeds germinated, of which 170 plants are still alive in the nursery. In North Coimbatore not a single seed germinated, while in Chingleput only 25 germinated out of 100 put down. Of these, 24 died and only one survives, being now 6 inches in height. A few seeds germinated in South Arcot, and the surviving plants look healthy. Only eight plants in Trichinopoly and nineteen in Tinnevelly have been successfully raised. The failure in most cases is attributed to the seed being old and insect-eaten.

Mr. M. R. Weld, C.S., Acting Collector, Kistna, in reporting the failure of the seed received from the Conservator, Northern Circle, observed that when at Mangalore in 1869, he sowed stones of Arabian dates which he had bought in the bazaar round his house, and that had come up well when he left the place. He tried the same thing since at several places on the East Coast, but without success. He thought the dates obtained at Mangalore were fresher than those obtained elsewhere, and suggested a reference to the Collector of South Canara as to the present condition of the seedlings he left growing at Mangalore. The result of the reference was that the Collector was unable to find any date-trees in the compound of the house referred to by Mr. Weld. The cause of the disappearance of the plants is not known.

Mr. Hadfield, District Forest-officer, Nilambúr, reports that he bought lately some date-fruits at Calicut and sowed some of the seeds to see if they would germinate, and somewhat to his surprise found nearly all of them came up.

Date offsets.—Five hundred and seventeen of these offsets from Busrah were received and distributed in this Circle as follows :—

—	Number sent out and put down.	Number existing.	Casualties.
Chingleput	113	109	4
North Arcot	100	95	5
South Arcot	100	95	"A few." Say 5
Trichinopoly	124	120	4
Tinnevelly	74	74	..
Malabar (Wynaad)	6	6	..
Total ..	517	499	18

It is gratifying to note that the casualties have been so low as 3·5 per cent.

The plants in North Arcot are growing well and those in South Arcot are doing fairly, whilst in Chingleput they are not in a thriving condition. The plants in Trichinopoly show good growth and are healthy, and their lower fronds average a length of 5 feet. In Tinnevelly all have struck root and some of the larger ones have since been transferred permanently to suitable localities. In Wynaad two are beginning to throw up fronds and all are expected to grow in time, though the climate appears to be a little too moist for them. Generally speaking, the results are fairly satisfactory and encouraging, but it is too early now to pronounce any definite opinion.

In Tanjore about 446 Persian dates were planted in the Vettangudi forest in the year 1880, of which only 175 palms now remain. Their general appearance is not encouraging, the reason assigned being the unsuitable soil and the ravages of a species of beetle which the District Forest-officer says was detected in the act of destroying one of the palms. Besides, the larvæ of the beetle were discovered in numbers adhering to the junction of the leaves with the stem.

During the year 91 offsets were separated from the above palms, 20 of which were sent to South Arcot and 71 planted in the Vettangudi forest. Of the latter 8 died, 21 were sickly and likely to die, and the rest were doing well at the close of the year.

In "Meltottam" block in the same district 66 plants were alive at the beginning of the year, of which 5 died and the rest were in good condition at the close of the year. Nine offsets were detached from the above palms, of which 6 were sent to South Arcot and 3 planted in Meltottam itself. Seven of the trees flowered in February last and ever since well laden with ripening fruits. The District Forest-officer writes that none of the trees which blossomed in 1885-86 and in previous years are among those which blossomed in 1886-87 It is found difficult to safeguard the fruits from rats and squirrels, but the District Forest-officer is trying to do so by inserting them in strong bamboo baskets.

Most of the offsets sent to South Arcot were planted in 3 feet cube pits at 9 feet apart each way. Three of the plants have thrown out new leaves, while others, although alive, have shown no new growth.

These experiments, though interesting, are expensive and rather a heavy tax on our officers whilst engaged in settlement and protection of the forests. The Conservator deprecates their being carried on at present on any scale, except where there is a competent resident agency as at Nilambúr. The table-lands of Mysore, the Ceded districts and the Deccan will probably be found better suited to the vigorous growth of the date-palm than the low-lying deltas of most of the Southern districts.

Divi-divi.—These plants are thriving in North Coimbatore at Talamalai and Bailur. In Madura there are 190 plants in the Navinipatti garden 12 to 15 feet high and 2 to 3 inches in circumference at the stem. Of these, 60 trees flowered in November 1886 and bore fruit. Specimen seeds were collected in February last and kept in the garden. In the Wynaad and Pálghat division the plants put out at Wálayár in 1885 have grown but slowly, and only 19 are now alive averaging about 4 feet in height.

Ensilage or Silos.—Agreeably to G.O., dated 9th July 1886, No. 573, communicated with Board's Proceedings, dated 7th August, No. 1779, 13 silos were constructed during the year (*i.e.*, 2 in North Arcot, 7 in Salem and 4 in South Canara), but none of them has yet been opened nor the results reported.

Eucalyptus.—The Eucalyptus plants at Palmanér in North Arcot are doing well, while the experiments in Salem are not satisfactory owing, it is alleged, to want of leisure and attention on the part of Range-officers. A few plants are, however, now thriving in the Námakal, Tirupatúr and Hosúr ranges. In North Coimbatore a few *Eucalyptus citriodora* of those raised at Talamalai from seed sown in 1884 appear healthy and are about 16 feet in height. In Tinnevelly the two species, viz., *Eucalyptus rostrata* and *citriodora* continue to do well in the ghât forests at elevations varying from 800 to 3,000 feet. In Malabar (Wynaad) the *Eucalyptus rostrata* has proved a complete failure, all the plants dying out. *Eucalyptus globulus* is unsuited to the climate and elevation (the latter being insufficient) and looks very poor and weedy. The five trees of *Eucalyptus sologna* and *Eucalyptus citriodora* grow well and appear thoroughly adapted to the climate, but unfortunately a beetle has discovered and attacked them in thousands. Mr. Morgan writes: "This small beetle bores a hole 4 inches deep into the trunk and there deposits its ova. A considerable discharge of a highly saccharine and mucilaginous fluid appeared from each hole and the trees looked sickly, but they have recovered." It is hoped that the attack will not be renewed this year. If it is, Mr. Morgan considers the trees must perish.

Fourcroya.—There are 400 plants in the Navinipatti garden in Madura. They have thrown out on an average 20 leaves and attained a height of 3 to 4 feet. 115 of them have been removed and transplanted to both sides of the footpath in the garden. All the plants are very healthy and flourishing. They evince greater luxuriance in the shade than in the open.

Giant Bamboos, &c.—Of the four species of bamboos in the botanical garden at Manantoddy in Wynaad, *Dendrocalamus Brandisii* or *Bambusa* has shown the most surprising growth, last year's shoots being over 30 feet in height. *Dendrocalamus Longispathus* has also grown vigorously and the best clumps, of which there are eight, average 20 feet in height. All the clumps in the nursery were taken up, divided and planted out on the western side of the garden. This has naturally temporarily retarded their growth and they only average some 10 feet in height.

Cephalostachyum Pergracile has been the slowest grower, last year's shoots averaging only 15 feet in height.

30 lb. of *Beesha Travancorica* bamboo seeds were obtained from Pálghat and put down in the nurseries. All germinated and the plants are now 3 feet in height.

The Burma bamboos in Nilambúr (*Arundinarea Brandisii, Dendrocalamus Longispathus, &c.*) are all growing well. The large clump of "yellow bamboos" and the four cuttings raised by Mr. Hadfield are doing fairly well. The attempt to grow "Kakoah bamboos" both in Nilambúr and Trichinopoly has proved fruitless owing to the worthlessness of the seed which had lost all its vitality.

The District Forest-officer, South Canara, started a small nursery for cuttings of giant bamboos which proved tolerably successful.

Ipecacuanha (*Cephalis*).—There are twenty plants now in Nilambúr doing very well. One plant considered as dead in 1885-86 has come up again from the roots.

Kigilia Pinnata.—The District Forest-officer, South Canara, took with him in September last a fruit from the Horticultural Gardens. It gave him several hundred seeds, nearly all

of which germinated some after 12 days' sowing, then a few at a time continuously for four months and one only a few weeks back. The seedlings look hardy, and though they were not always properly attended to, 200 were in a flourishing condition at the close of the year. Some of them measured one foot high.

Lancewood (*Oxandra virgata*).—Twenty-five plants were sent from the Agri-Horticultural Gardens, Madras, to Nilambúr in February last, but they were not planted out during the year. Those similarly sent to Wynaad in pots are reported to be thriving.

Mahogany.—In South Arcot the seedlings raised from seed in 1885-86 and transplanted are doing fairly well. In Madura there are 70 plants thriving well, besides 185 plants at the Navinipatti garden which also grow very luxuriantly and average 3 feet in height. They are impatient of much shade. In Tinnevelly about 1,555 plants have been put out in 6½ acres and are doing well on the whole. Some casualties have, of course, occurred.

In Chingleput 3 lbs. of seed were sown during the year, but only a few germinated. The young plants were transplanted into baskets. They were growing well at the close of the year. In Trichinopoly 500 healthy plants were raised during the year from 2 lbs. of seed and transplanted in pots. They averaged from 9 to 12 inches in height. The Padugai (river bank) soil is found exceedingly suitable for these plants. A species of grasshopper caused some damage by destroying the terminal shoots, but the plants since recovered and were doing well at the close of the year.

Of the 350 plants obtained from the Horticultural Gardens, Madras, in May 1886, 299 were doing well and averaged 2½ feet in height at the close of the year.

In Tanjore 25 plants survive out of 71 put out in 1881 and are in a fairly good condition. Of 168 seeds put down at Vettangudi in 1885-86, 84 germinated, of which 9 died and 75 turned out to be vigorous plants; 30 of these were given to the Executive Engineer and the rest planted. Again 1,183 seeds were put down in the Northern Range, but only 48 germinated owing to some defect in the seed.

In Malabar (Wynaad and Pálghat) 43 plants were permanently planted out in 1883-84 and 55 in 1885-86. These plants (with the exception of one self-sown, which escaped the borer and is now 20 feet high and 10″ in girth) have progressed poorly owing to the constant attacks of the borer.

Two pounds containing 2,400 seeds were put down, one-half at Kanot and other half at the Botanical Garden: 800 seeds germinated at Kanot, but most of the plants were destroyed: 375 germinated at the Botanical Garden, of which 278 are now alive, the rest having been destroyed by *gryllus*. These plants now average 11 inches in height and look healthy.

In Nilambúr the largest mahogany tree planted in 1873 measured 70 feet in height, 56 inches at base and 44 inches at 5 feet from base, having grown 1 foot in height, 4 inches in circumference at the base and 3 inches at 5 feet high during the year. The borer was not so prevalent as in former years and had not attacked the new planting amongst the teak. Mr. Hadfield identifies the grub with that found on the brinjal (*Solanum melongena*).

Manilla hemp (*Musa textalis*).—In South Arcot six plants received last year through the Collector are doing fairly well, the largest 13 feet high and stem 20″ girth. Three have offsets nearly fit to transplant. In Trichinopoly, of the 50 plants put out in 1885-86, 45 show vigorous growth and average a height of between 8 to 10 feet. In Tinnevelly 44 plants show a vigorous and healthy growth out of 60 put out in 1885-86, 16 having died.

In Malabar (Wynaad) the Manilla hemp continues to flourish and throw out suckers plentifully. It has twice fruited. It may be regarded a complete success in Wynaad, the climate of which appears to be very suitable for it. Mr. Morgan considers that thousands of acres might be planted with it in Wynaad, but it is not known whether the fibre produced will be as good as in its native habitat.

Maipak (*Evodia Meliæfolia*).—Half a pound of seed sent by the Conservator in 1885-86 was sown in nursery beds, but not a single seed germinated.

Olea Europea.—A few seeds were received from the Director of Revenue Settlement and Agriculture at the beginning of the year, but those put down both in North Coimbatore and Tinnevelly have failed to germinate.

Peltophorum ferrugineum.—In Tanjore 29 seedlings were planted at Méltottam in the Vettangudi forest in 1883, of which 24 look healthy and 7 flowered for the first time during the year.

Pithecolobium saman.—In North Arcot some thousands of plants were raised from seeds gathered from the trees at Vellore. The young plants put down at Tiruvalam and Kílminnel are doing well. In Malabar (Wynaad) the tree in the swamp has grown very much, especially in girth. Those on the ridge are in a poor and gravelly soil and are bad specimens. There are 142 of them in all.

Rubber experiments.—In South Arcot Ceara rubber does not thrive although it bears fruits and yields sap in small quantities. In Malabar (Wynaad) of the three plants of *Hevea Brazeliensis* received in 1885-86, from Mr. Ferguson, two are growing rather slowly, but look healthy. The third was bored out and died. The *Castilloa elastica* plant eaten down by stray cattle in the preceding year also died. In Nilambúr the *Castilloa*, *Hevea Brazeliensis* and *Ceara*

are all doing well. Mr. Hadfield had to thin out some of the Cearas during the year. The largest eight trees that he tapped severely both trunks and roots yielded only one pound of rubber which he considers to be small quantity considering the age of the trees (6 years). The one plant of *Landolphia Florida* was broken off at 12 feet from the ground by the branch of a tree which fell over it, but has thrown out two shoots from where it broke off and that the length of the climber from the ground to the top of the new shoot is now 14½ feet.

The nurseries in the Botanical Gardens at Manantoddy are fully stocked with a valuable and healthy assortment of plants of various kinds.

Many tons of sugar-cane were cut and supplied to the Government elephants from the sugar-cane swamp. Rats do considerable damage to the canes.

Annual Form No. 59-A.

Forest Department, Madras, Southern Circle.

Area of Reserved Forests, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput..	Saidápet	Tandrai	664	..	..	..	664	..	G.O., Nos. 96, 96 A., dated 6th Feb. 1886.	
	Chingleput	Tirukalikundram ..	697	..	..	..	697	..	G.O., No. 1002 Rev., dated 5th Sept. 1885.	
		Uragadam	540	..	..	..	540	..		
		Madayatur	697	..	..	..	697	..		
		Vandalúr	..	..	3,207	..	3,207	..	G.O., Nos. 358, 358 A., Rev., dated 21st May 1886.	Added from 59-C.
	Sativedu	Kambakam	14,967	..	..	* 16	14,951	..	G.O., Nos. 96, 96 A., dated 6th Feb. 1886. Board's Procs., No. 460 / Forest 81, dated 19th Feb. 1886.	
		Ambakam	..	..	5,259	..	5,259	..	G.O., Nos. 929, 929 A. Rev., dated 27th Oct. 1886.	Added from 59-C.
		Sativedu	..	..	6,859	..	6,859	..		
		Aradur	..	..	2,680	..	2,680	..		
		Kadur	..	..	2,494	..	2,494	..		
		Ugumudi	..	..	2,884	..	2,884	..		
		Total ..	17,565	27·45	23,383	16	40,932	63·96		
North Arcot.	Vellore .. Pólúr taluk ..	Carnatic Ghur.. ..	7,069·17	..	..	..	7,069·17	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated and surveyed.
		Ammerdi Plantation ..	25	..	..	..	25	..		Demarcated and fenced.
		Ambúr Fuel Reserve ..	3,840	..	..	..	3,840	..		
		Palamadi	6,400	..	..	..	6,400	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
		Ambúr Plantation ..	5	..	..	..	5	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated and fenced.
	Chandragiri. Chandragiri taluk.	Napier Reserve ..	8,772	..	..	..	8,772	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated, surveyed, and fenced.
		Mámandúr do. ..	1,776	..	..	..	1,776	..		
		Chamala do. ..	9,600	..	..	..	9,600	..		Demarcated.
		Panapak do. ..	6,400	..	..	..	6,400	..		
		Podipatla bail	2,560	..	..	..	2,560	..		
		Gazerlamandiyam ..	250	..	..	..	250	..		Partly surveyed, fenced, and not planted.

* Excluded owing to re-adjustment of boundary between Government and Kalastri Zemine.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.		Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot —*cont.*	Chandragiri.	Chittoor taluk ..	Paradarami	15,241·83	..	..	..	15,241·83	..	No. 89, F.S.G.G., dated 8th Feb. 1887.	
	Palmanér ..	Gudiyátam taluk.	Ambúr drug	5,760	..	..	..	5,760	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated and surveyed.
		Palmanér taluk.	Musalimadugu ..	9,600	..	..	..	9,600	..	No. 158, F.S.G.G., dated 16th June 1885.	
			Basvireddipalle ..	10,240	..	..	..	10,240	..	No. 275, F.S.G.G., dated 2nd Oct. 1885.	
			Peddur	9,600	..	..	..	9,600	..		
			Palmanér	2	..	..	..	2	..		
			Nagamangalam ..	31	..	..	..	31	..		
			Piduguvaripalle ..	20	..	..	..	20	..		
			Venkatagirikota ..	4	..	..	..	4	..	No. 158, F.S.G.G., dated 16th June 1885.	Fenced.
			Baireddipalle	4	..	..	..	4	..		
		Palmanér and Gudiyátam taluks.	Mortana	16,000	..	..	..	16,000	..		
			Naikaneri	6,400	..	..	..	6,400	..		Demarcated.
		Gudiyátam ..	Taruvallam Plantations.	435	..	..	..	435	..		
			Virinjipuram do. ..	260	..	..	..	260	..		
			Chainur do. ..	130	..	..	..	130	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated, surveyed, and fenced.
			Amundi	160	..	..	..	160	..		Demarcated and fenced.
			Tandrayagunta ..	2	..	..	..	2	..		
	Head quarters.	Arcot taluk ..	Punganúr	3,743·37	..	..	..	3,743·37	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
			Kilminnel	111·54	..	* 38·46	..	150	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated, surveyed, and fenced.
			Vannivedu	30	..	..	..	30	..		Surveyed and fenced.
			Arkónam Sub-Magistrate's compound.	5	..	..	..	5	..	No. 158, F.S.G.G., dated 16th June 1885.	Surveyed and fenced.
			Arkónam Plantation ..	37	..	..	..	37	..		....
			Total ..	124,513·91	194·55	38·46	..	124,552·37	194·61		
South Arcot ..	I. Tiruvannámalai		Annamalai forest ..	1,760	..	..	..	1,760	..	No. 151, F.S.G.G., dated 2nd June 1885.	Notified under section 25.
			Total ..	1,760	2·75	..	..	1,760	2·75		

* Part once washed away by flood, but since recovered.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem ..	Salem	Bodamalai	..	..	5,600	..	5,600	..	From 1st Jan. 1887, F.S.G.G., dated 30th Nov. 1886.	
		Atur ghât	..	..	3,142	..	3,142	..	From 1st March 1887, No. 9, F.S.G.G., dated 11th Jan. 1887.	
		Kutar	..	..	3,795	..	3,795	..	From 31st March 1887.	
		Nartenchedu extension ..	..	..	1,088	..	1,088	..	From 31st March 1887, No. 84, F.S.G.G., dated 8th Feb. 1887.	
		Yerimalai	..	..	3,520	..	† 3,520	..	From 31st March 1887, No. 78, F.S.G.G., dated 8th Feb. 1887.	
		Pillapallikombai new ..	..	..	2,080	..	‡ 2,080	..	From 31st March 1887, No. 82, F.S.G.G., dated 8th Feb. 1887.	
		Atur ghât extension ..	..	..	544	..	544	..	From 31st March 1887, No. 81, F.S.G.G., dated 8th Feb. 1887.	
		Karuvattuparai ..	..	..	1,800	..	§ 1,800	..	From 31st March 1887, No. 80, F.S.G.G., dated 8th Feb. 1887.	
	Atúr	Belur	..	..	6,880	..	6,880	..	From 1st June 1887	Not published.
		Nagur	..	..	3,757	..	3,757	..	From 31st March 1887, No. 83, F.S.G.G., dated 8th Feb. 1887.	
	Námakal	Jambutu	..	..	2,617	..	2,617	..	From 31st March 1887 ..	Not published.
	Atúr and Námakal	Karavallikombai ..	..	..	8,755	..	8,755	..	From 1st Feb. 1887.	
		Pilapadi	..	..	8,000	..	8,000	..	From 31st March 1887, No. 86, F.S.G.G., dated 8th Feb. 1887.	
		Tumbakal	..	..	7,757	..	7,757	..	From 1st Feb. 1887.	
	Utenkarai	Chitteri	..	..	3,917	..	3,917	..	From 31st March 1887, No. 79, F.S.G.G., dated 8th Feb. 1887.	
		Kottapatti	..	..	8,960	..	8,960	..	From 15th March 1887, No. 67, F.S.G.G., dated 1st Feb. 1887.	
		Puvampatti	..	..	4,672	..	4,672	..	From 1st Feb. 1887.	
		Mangalam	..	..	6,080	..	6,080	..	From 1st Dec. 1886.	
		Nagalotu	..	..	2,560	..	‖ 2,560	..		
		Mambakam	..	..	9,370	..	9,370	..	From 1st Jan. 1887	Not published.
		Punkulum	..	..	7,834	..	7,834	..	From 1st Dec. 1886.	
	Tirupatúr	Madakadapa	..	..	2,048	..	2,048	..	From 1st Jan. 1887	Not published.
		Jalárpet	..	..	1,216	..	1,216	..	From 1st Feb. 1887.	
		Narasingapuram ..	..	..	2,048	..	2,048	..		
		Kalarapatti	..	..	2,016	..	2,016	..	From 1st Dec. 1886.	
		Total ..	..	..	*110,056	..	110,056	171·96		

* Transferred from 59-C.
† Of which Kariyappenkombai specially protected block comprises 265 acres.
‡ Of which 981 acres are under special protection.
§ Do. 837 do. do. do.
‖ Of which the Kottur specially protected block comprises 1,213 acres.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly.	Kulitalai	Elamanur	117·10	..	..	..	117·10	..	B.P.,F. No. 297, dated 23rd Sept. 1884.	
		Kulitalai	77·18	..	..	..	77·18	..		
		Manatattai	44·86	..	..	..	44·86	..		
		Lálápet	213	..	..	..	213	..		
		Sittalavoi	160·32	..	..	..	160·32	..		
		Kattalai	74·35	..	..	..	74·35	..		
		Tenmalai	640	..	..	..	640	..	B.P., No. 3782, dated 14th Dec. 1883.	
		Minnakaradu	1,000	..	..	* 902	98	..		
		Panjantanji	1,000	..	† 543	..	1,543	..		
		Pettavoitalai	..	..	137	..	137	..	No. 10, F.S.G.G., dated 11th Jan. 1887, part I, pages 13 and 14; B.P.,F. No. 38, dated 28th Jan. 1887.	Transferred from 59-C.
	Musiri	Sengattupatti	..	..	3,000	..	‡ 3,000	..	No. 87, F.S.G.G., dated 8th Feb. 1887, part I., page 96.	
		Melur	..	..	3,000	..	‡ 3,000	..	B.P.,F. No. 113, dated 2nd March 1887.	Transferred from 59-C.
	Perambalúr	Manalodai	..	..	4,000	..	‡ 4,000	..	No. 85, F.S.G.G., dated 8th Feb. 1887, part I, page 94.	
		Salamatti	..	..	7,000	..	‡ 7,000	..	B.P.,F. No. 113, dated 2nd March 1887.	
		Total ..	3,326·81	5·20	17,680	902	20,104·81	31·41		
Tanjore ..	....	....	..	..	Nil	..	..	..		Sandal wood reserves demarcated, surveyed, and mapped. Notified under section 25. These 4 tracts will be merged hereafter in larger areas of reserved forests.
North Coimbatore.	Kollegál	Jadatalayhulla ..	361·01	..	..	..	361·01	..		
		Udayárpálaiyam ..	296·63	..	..	..	296·63	..	No. 217, F.S.G.G., dated 21st Dec. 1883.	
		Bilur	1,186·39	..	..	..	1,186·39	..		
		Germalam	519·78	..	..	..	519·78	..		
	Satyamangalam	Vellamundi	12,800	..	..	..	12,800	..	No. 174, F.S.G.G., dated 7th July 1885.	Notified under section 16.
		Eastern slopes of the Nílgiris.	..	..	48,000	..	48,000	..	No. 87, F.S.G.G., dated 17th March 1886, page 193, and No. 143, F.S.G.G., dated 28th April 1886, page 409.	Notified under Section 16. Transferred from 59-C.
		Total ..	15,163·81	23·70	48,000	..	63,163·81	98·69		

* Found deficient when surveyed. † Found excess when surveyed. ‡ Approximate area.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Coimbatore.	Tunakadavu	Anaimalais, No. I ..	52,480	..	..	..	52,480	..		
	Ponachi	Do. ,, II ..	3,140	..	..	..	3,140	..		
	Udamalpet	Do. ,, III ..	47,360	..	..	..	47,360	..		
	Polláchi and Udamalpet ..	Do. do. ..	133,120	..	..	..	133,120	..		
	Bolampatti	Bolampatti block, No. I	47,680	..	..	..	47,680	..		
		Do. ,, II								
		Do. ,, III								
		Tadágam block ,, IV	30,720	..	..	..	30,720	..		
	Mettupálaiyam	Gopaneri do. ,, V	38,200	..	..	..	38,200	..	No. 309, F.S.G.G., dated 4th November 1885.	
		Kempampalaiyam ,, VI								
		Nellitorai ,, VII								
		Odantorai ,, VIII	5,880	..	..	..	5,880	..		
		Modur block ,, IX	3,600	..	..	..	3,600	..		
		Total ..	362,180	565·91	..	..	362,180	565·91		
Madura ..	No. I, Periyakulam ..	Vannatiparai	27,481·6	..	..	..	27,481·6	..		
		Suranganar	3,616	..	..	..	3,616	..		
		Méla Gudalur ..	1,280	..	..	..	1,280	..		
		Machakal	2,560	..	..	..	2,560	..		
		Kutinachiyar	..	..	640	..	640	..	No. 160, F.S.G.G., dated 5th May 1886.	Notified under section 16.
		Pandaratorai	..	..	300	..	300	..		Transferred from 59-C.
		Sengalvarai Ar ..	5,209·6	..	..	..	5,209·6	..		
		Pambar	4,755·2	..	..	..	4,755·2	..		
		Tambirankanal ..	250	..	..	..	250	..		
		Jungle Conservancy.								
		Virapandi	2	..	..	..	2	..	....	Reserved forest and tope.
		Tamaraikulum ..	1	..	..	..	1	..	....	
		Mélamangalam ..	1·5	..	..	..	1·5	..	....	
		Vadipatti	1	..	..	..	1	..	....	
		Ganguvarpatti ..	4	..	..	..	4	..	....	
		Allinagaram	2	..	..	..	2	..	....	
		Mottanutu	2	..	..	..	2	..	....	
	No. II, Kodaikánal ..	Pumbarai and Vilpatti valley.	13,587·2	..	..	..	13,587·2	..		
		Kudirai Ar	10,060·8	..	..	..	10,060·8	..		

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II, Kodaikánal—*cont.* ..	Kukal	9,644·8	..	..	..	9,644·8	..		
		Marudanadiyar ..	6,528	..	..	..	6,528	..		
		Pambukal Ar	800	..	..	..	800	..		
		Siruvattukadu ..	2,279·2	..	..	..	2,279·2	..		
		Kaniyankadu	3,001·6	..	..	..	3,001·6	..		
		Vennilai	4,800	..	..	..	4,800	..		
		Ariyanutukanal ..	64	..	..	..	64	..		
		Kumangovaimalaikadu..	80	..	..	..	80	..		
		Peterankanal	80	..	..	..	80	..		
		Varattarkanal ..	..	..	* 200	..	200	..	No. 103.	
		Iruttarkanal	..	..	* 100	..	100	..		
		Nochiarkadu	..	..	* 200	..	200	..		
		Talaiar Andarkovil kadu.	..	..	* 30	..	30	..		
		Talaiar kadu	..	..	* 150	..	150	..	No. 160 F.S.G.G., dated 5th May 1886.	Notified under section 16.
		Kadamaravu	..	..	* 50	..	50	..	No. 103.	
		Vilamkombai	1,600	..	..	..	1,600	..		
		Parappar	42	..	..	..	42	..	....	Reserved forest and plantation.
		Sholas on the Lower Palnis—	—							
		(*a*) Perumalmalai Shola ..								
		(*b*) Togavarai Shola..								
		(*c*) Sirutarkanal ..								
		(*d*) Arankanal ..								
		(*e*) Kadavu Shola ..								
		Sholas on the Upper Palnis—								
		(*a*) Tiger Shola ..	2,316	..	..	..	2,316	..		
		(*b*) Parappar Shola ..								
		(*c*) Kodaikanal ..								
		(*d*) Pannitutamkanal.								
		(*e*) Gundan and Manavan Sholas ..								
		(*f*) Gundar Shola ..								
		(*g*) Sandanam Shola.								
		(*h*) Fort Hamilton ..								
		(*i*) Mariyan Shola ..								

* Transferred from 59-C.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II, Kodaikánal—*cont.*	*Plantations.*								
		Eucalyptus	16·62	..	..	..	16·62	..	....	Reserved forest and plantation.
		Acacia	14	..	..	..	14	..	....	
		Velamkombai	54·14	..	..	..	54·14	..	....	
		Jungle Conservancy.								
		Kodaikanal Settlement	3	..	..	..	3	..	....	
		Pumbarai	6	..	..	..	6	..	....	
		Virupatchi	7·15	..	..	..	7·15	..	....	Reserved forest and tope.
		Sivagiripatti	1·15	..	..	..	1·15	..	....	
		Sirumalai	25,529·6	..	..	..	25,529·6	..		
		Mudimalai	6,086·4	..	..	..	6,086·4	..		
		Akkammakaradu	1,600	..	..	..	1,600	..		
		Kappuravallikuttu	2,560	..	..	..	2,560	..		
		Tenkal	3,200	..	..	..	3,200	..		
		Sundamalai	2,240	..	..	..	2,240	..		
		Tannirkaradu	1,920	..	..	..	1,920	..		
		Kadávakurchi	5,120	..	..	..	5,120	..		
		Sengattampatti	4,480	..	..	..	4,480	..		
	No. III, Dindigul	*Jungle Conservancy.*								
		Dindigul at the junction of Trichinopoly and Karur roads	1	..	..	..	1	..		
		Dindigul Munsif's Court	·59	..	..	..	·59	..		
		Do. race course	4	..	..	..	4	..		
		Kovilur	1·19	..	..	..	1·19	..		
		Do.	·15	..	..	..	·15	..		
		Gudalur	1·18	..	..	..	1·18	..		
		Guvakapatti	130·52	..	..	..	130·52	..		
		Jungle Conservancy.								
		Mudugamalai	2,700	..	..	..	2,700	..		
		Vellamalai								
		Perumalmalai								
		Pillaiyarnattam hills								
	No. IV, Melúr	Navinipatti	12	..	..	..	12	..	....	Reserved forest and tope.
		Alagarmalai	13,036	..	..	..	13,036	..		
		Tenapudupettai	126·78	..	..	..	126·78	..	....	Reserved forest and tope.
		Sakimangalam	467·94	..	..	..	467·94	..	....	
		Nagamalai	2,356	..	..	..	2,356	..		
		Vikramangalam	10,240	..	..	..	10,240	..		

Area of Reserved Forests, 1886-87—*continued*.

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. IV, Melúr—*continued* ..	Tenur	11·78	..	..	..	11·78	..	....	Reserved forest and tope.
		Tovariman	21	..	..	..	21	..	....	
		Total ..	181,997·69	284·37	1,670	..	183,667·69	286·98		
Tinnevelly ..	Nangunéri	Reserve No. I ..	31,532·80	..	..	..	31,532·80	..	Constituted reserved forest under section 25, G.O., No. 257, dated 11th February 1881.	
	Ambásamudram	Do. ,, II ..	91,008	..	..	..	91,008	..		
	Tenkási	Do. ,, III ..	18,009·60	..	..	..	18,009·60	..		
	Sankaranainárkovil	Do. ,, IV ..	19,737·60	..	..	..	19,737·60	..		
	Srívilliputur	Do. ,, V ..	23,270·40	..	..	..	23,270·40	..		
		Total ..	183,558·40	286·81	..	..	183,558·40	286·81		
Malabar (Wynaad and Pálghat).	Wynaad	Kuppadi	7,337·44	..	..	..	7,337·44	..	No. 112, F.S.G.G., dated 21st April 1885, part I.	The areas were ascertained by actual survey.
		Kurchiyat	18,053·86	..	..	..	18,053·86	..	No. 160, F.S.G.G., dated 23rd June 1885, part I.	
		Rampur	18,854·67	..	..	..	18,854·67	..	No. 191, F.S.G.G., dated 24th July 1885, part I.	
		Nulpoya	3,613·28	..	..	..	3,613·28	..	....	
		Mavanhulla	12,576·64	..	..	..	12,576 64	..	....	
		Begur	15,366	..	..	..	15,366	..	....	
	Pálghat	Walayar	3,017	..	..	..	3,017	..	No. 178, F.S.G.G., dated 6th November 1883, part I.	
		Total ..	78,818·89	123·15	..	..	78,818·89	123·15		
Malar (Nilambúr).	Nilambúr	Ernád taluk—								
		Karimpoya Reserve ..	3,955·28	..	..	..	3,955·28	..		
		Amarampalaiyam Reserve.	468·04	..	..	..	468·04	..		
		Chatambarai Reserve ..	699·52	..	..	..	699·52	..		
		Nellikutta do. ..	1,824·13	..	..	..	1,824·13	..		
		Total ..	6,946·97	10·85	..	..	6,946·97	10·85		
South Canara.	Kandapúr	No. I Sabladi ..	208	..	..	..	208	..		
	Udipi	,, II Ajjarkad ..	160	..	..	..	160	..		
		,, III Pillarkhan ..	320	..	..	..	320	..		
	Mangalore	Nos. IV and V, Poitage Kayar Palla.	96	..	..	..	96	..		
		No. VI, Chembuguddi ..	75	..	..	..	75	..		
		,, VII, Kuttiyar ..	25	..	..	..	25	..		
		Total ..	884	1·38	..	..	884	1·38		
		Grand Total ..	976,715·48	1,526·12	*200,827·46	*918	1,176,624·94	1,838·47		

* These figures differ from those given in paragraph 4 of the Report as under "excluded during the year" in the latter the net deficit in area by actual survey in Trichinopoly was taken into account, whereas in this Form + 543 and — 902 acres are entered separately in their respective columns.

Annual Form No. 59-B.

Forest Department, Madras, Southern Circle.

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Tiruvallúr	Namalur	938	..	..	..	938	..		
		Kallanur	482	..	..	482	..	..		
		Chengugram	327	..	..	327	..	..		
		Pelvakam	436	..	..	..	436	..		
		Semai	331	..	..	331	..	..		
		Sunkarai	630	..	..	630	..	..		
		Mukrambakam	590	..	..	590	..	..		
		Kolatur	248	..	..	..	248	..		
		Palavakam	436	..	..	436	..	..		
		Irukolu	156	..	..	..	156	..		
		Total ..	4,574	7·15	..	* 2,796	1,778	2·78		
North Arcot ..	..	....	..	..	Nil	..	..	..		
South Arcot.	No. I, Tiruvannámalai.	Annamalai kasba hill and neighbourhood.	2,080	..	..	..	2,080	..		
		Tandrampet	11,500	..	..	..	11,500	..		
		Kadambai	1,000	..	..	..	1,000	..		
		Tachampet including Atipakam ..	1,000	..	..	..	1,000	..		
	No. II, Tindivanam ..	Annamangalam	250	..	..	..	250	..		
		Vallanad Sevur	1,115	..	..	..	1,115	..		
		Nangilikondan	50	..	..	..	50	..		
		Natamangalam	30	..	..	..	30	..		
		Vilukam	100	..	..	..	100	..		
		Olakur	300	..	..	..	300	..		
		Roshanai	50	..	..	..	50	..		
		Edayalam	400	..	..	..	400	..		
		Eriyánur	95	..	..	..	95	..		
		Jaggampet	108	..	..	..	108	..		
		Senalur	150	..	..	..	150	..		
		Mannur	50	..	..	..	50	..		
		Nemmalai	300	..	..	..	300	..		
		Endur	50	..	..	..	50	..		

* Of this 235 acres were set apart for the use of villagers' privileges and the rest transferred to 59-C, under Palavakam block.

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. II, Tindivanam—*cont.*	Bramhadesam	50	..	..	..	50	..		
		Vannipper	50	..	..	..	50	..		
		Nadukuppum to Bramhadesam	400	..	..	..	400	..		
		Kandadu	370	..	..	..	370	..		
		Omapper	20	..	..	..	20	..		
		Mailum	265	..	..	..	265	..		
	No. III, Villupuram.	Tandavasamudram	3,000	..	..	..	3,000	..		
		Matur	540	..	..	..	540	..		
		Turinjikadu	1,104	..	..	..	1,104	..		
		Odayanatam and Kadayam	1,000	..	..	..	1,000	..		
		Vanur 1st bit	200	..	..	..	200	..		
		Vanur 2nd bit	150	..	..	..	150	..		
		Kalikovil	200	..	..	..	200	..		
		Chengadu	100	..	..	..	100	..		
		Vakkur	200	..	..	..	200	..		
		Kappianur	545	..	..	..	545	..		
		Mutampalaiyam	50	..	..	..	50	..		
		Navamal Marudur	80	..	..	..	80	..		
		Aliyur	70	..	..	..	70	..		
		Neliyanur	70	..	..	..	70	..		
		Valavanur	344	..	..	..	344	..		
		Pakam	350	..	..	..	350	..		
		Sorapur	50	..	..	..	50	..		
		Marudur	70	..	..	..	70	..		
		Villupuram kasba tank	100	..	..	..	100	..		
		Valutareddi	130	..	..	..	130	..		
		Kandampakam	60	..	..	..	60	..		
		Olaikai	50	..	..	..	50	..		
		Kappur	50	..	..	..	50	..		
		Kondangi	100	..	..	..	100	..		
		Nannadu	100	..	..	..	100	..		
		Perumbakam	100	..	..	..	100	..		
		Devanampet	100	..	..	..	100	..		
		Tiruvamatur	28	..	..	..	28	..		
		Tennamadevi	51	..	..	..	51	..		
		Adanur	1,449	..	..	..	1,449	..		
		Oratur	228	..	..	..	228	..		
		Tangal	57	..	..	..	57	..		
		Karanai	200	..	..	..	200	..		
		Gundalapuliyur	844	..	..	..	844	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. III, Villupuram—*cont.*	Siruvalai (Arumbili)	1,014	..	..	..	1,014	..		
		Vembi	256	..	..	..	256	..		
		Narasinganur	377	..	..	..	377	..		
		Vikkravandi proper	450	..	..	..	450	..		
		Do. tangal	20	..	..	..	20	..		
		Melakondai	495	..	..	..	495	..		
		Satanur	233	..	..	..	233	..		
		Panampattu	250	..	..	..	250	..		
		Saliyampalaiyam	70	..	..	..	70	..		
		Nemmalai	100	..	..	..	100	..		
		Dadavaram	200	..	..	..	200	..		
		Tiruvakkarai	1,000	..	..	..	1,000	..		
		Tuluvai	150	..	..	..	150	..		
		Ramapuram and Valicheripalaiyam	1,091	..	225	1,316	..	..	....	Transferred to 59-C.
		Vellakarai	1,600	..	..	1,600	..	..	....	
		Selambanadampet	651	..	..	650	1	..	....	
		Badrakotai	344	..	..	..	344	..	....	
		Sammattikuppum	343	..	7	350	..	..	....	
		Chinnadamakuppum and Kallujagai (Valudalampattu).	700	..	200	900	..	..	....	
	No. IV, Cuddalore	Velankuppum	1,000	..	..	1,000	..	..	....	Transferred to 59-C.
		Kangiruppu	2,250	..	..	2,240	10	..	....	
		Vadakuttu	3,400	..	..	3,400	..	..	....	
		Veludayampattu	1,800	..	..	1,700	100	..	....	
		Vellayankuppum (Peramattur)	1,700	..	..	1,700	..	..	....	
		Kaliyankuppum	150	..	..	..	150	..		
		Kuttiyambakam	100	..	..	..	100	..		
		Siruvatur	300	..	..	..	300	..		
	No. IV, Chidambaram.	Pichavaram	2,000	..	..	..	2,000	..		
		Ramapakam	800	..	..	..	800	..		
		Kondapuram	1,200	..	..	..	1,200	..		
		Pavanji Nallur	200	..	..	..	200	..		
		Kollatankurchi	350	..	..	..	350	..		
		Nisangam	800	..	..	..	800	..		
		Adivaraganallur	1,200	..	..	..	1,200	..		
		Kolakudi (east of road)	600	..	..	..	600	..		
		Pinnalur (Walajapet tank block)	400	..	..	..	400	..		
		Manamadevi	150	..	..	..	150	..		
		Viranam tank	1,500	..	..	..	1,500	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. V, Tirukoilúr ..	Nattamur	9,500	..	..	..	9,500	..		
		Chittamur	3,000	..	..	..	3,000	..		
		Arunavaram	2,650	..	..	..	2,650	..		
		Odiyatur	2,500	..	..	..	2,500	..		
		Endur	1,000	..	..	..	1,000	..		
		Virinjipuram and Kandachipuram ..	1,500	..	..	..	1,500	..		
		Adukam (Tandarai)	1,500	..	..	..	1,500	..		
		Atipakam	2,000	..	..	..	2,000	..		
		Sadakati	500	..	..	..	500	..		
		Swamimalai	4,000	..	..	..	4,000	..		
		Maradur	2,220	..	..	..	2,220	..		
		Ulandurpet (Pandur)	2,500	..	..	..	2,500	..		
		Edakal proper (south of road) ..	900	..	..	..	900	..		
		Edakal proper (north of road) ..	3,600	..	..	..	3,600	..		
		Alwarmalai	6,500	..	..	..	6,500	..		
		Siruvakam	1,200	..	..	..	1,200	..		
		Kutadi	2,250	..	..	..	2,250	..		
		Sidevi	3,000	..	..	..	3,000	..		
		Kunjaram	1,500	..	..	..	1,500	..		
		Kallamedu	500	..	..	..	500	..		
		Elandorai (late Ponnavalam) ..	200	..	..	..	200	..		
		Tiruvennainallur	40	..	..	..	40	..		
		Emappur	70	..	..	..	70	..		
		Siruvanur	50	..	..	..	50	..		
		Iruvelpet	50	..	..	..	50	..		
		Melmangalam	40	..	..	..	40	..		
		Mamandur	50	..	..	..	50	..		
		Gramam	40	..	..	..	40	..		
		Elandorai tank	40	..	..	..	40	..		
		Panapakam	50	..	..	..	50	..		
		Sitilingamadam	70	..	..	..	70	..		
		Marudur tank bed	60	..	..	..	60	..		
		Pudupalaiyam	40	..	..	..	40	..		
		Palayagram	65	..	..	..	65	..		
	No. VI, Kallakurchi ..	Kanakadu	1,200	..	..	..	1,200	..		
		Kadambur	100	..	..	..	100	..		
		Kaduvanur	1,500	..	..	..	1,500	..		
		Katuvananjur	800	..	..	..	800	..		
		Lalapet forest including Chittal ..	1,500	..	..	..	1,500	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*contd.*	No. VI. Kallakurchi—*cont.*	Vengalam Pasar	3,000	..	..	..	3,000	..		
		Rishivendiyam	3,000	..	..	..	3,000	..		
		Nilamangalam	150	..	..	..	150	..		
		Emaputtur	1,000	..	..	..	1,000	..		
		Kolatur	300	..	..	..	300	..		
		Indali	1,000	..	..	..	1,000	..		
		Kotalammalai	2,500	..	..	..	2,500	..		
		Nagalur	900	..	..	..	900	..		
		Porasakurchi	750	..	..	..	750	..		
		Varansaram	450	..	..	..	450	..		
		Kuttakudi	1,000	..	..	..	1,000	..		
		Kilnariyappanur	1,500	..	..	..	1,500	..		
		Varadiyappanur	500	..	..	..	500	..		
		Chinna Salem	200	..	..	..	200	..		
		Tottapadi	250	..	..	..	250	..		
		Velankulam and Vennakuli ..	500	..	..	..	500	..		
		Semakotai and Palaiyapatnam ..	4,500	..	..	..	4,500	..		
		Pallipattu	1,500	..	..	..	1,500	..		
		Erulakurchi	300	..	..	..	300	..		
		Melakuppankulam	600	..	..	..	600	..		
		Parur	3,000	..	..	..	3,000	..		
		Narimadam	600	..	..	..	600	..		
		Ammeri	500	..	..	..	500	..		
		Kuppanatam	750	..	..	..	750	..		
		Satamangalam	200	..	..	..	200	..		
		Arasuguli	100	..	..	..	100	..		
	No. VII. Vriddhá-chalam.	Kolapakam	600	..	..	..	600	..		
		Kammapuram	600	..	..	..	600	..		
		Karmangudi	2,000	..	..	..	2,000	..		
		Narasingamangalam	1,200	..	..	..	1,200	..		
		Kotanur	2,700	..	..	..	2,700	..		
		Memadur	500	..	..	..	500	..		
		Pillur	800	..	..	..	800	..		
		Pulambadi	2,000	..	..	..	2,000	..		
		Alambalam	2,000	..	..	..	2,000	..		
		Aderi	1,000	..	..	..	1,000	..		
		Katumailur	800	..	..	..	800	..		
		Naraiyur	3,000	..	..	..	3,000	..		
		Nangur	1,800	..	..	..	1,800	..		
		Mangalam	300	..	..	..	300	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*contd.*	No. VII. Vriddhácha-lam—*contd.*	Alliyur	150	..	..	..	150	..		
		Pinjanur	200	..	..	..	200	..		
		Kasba tank	200	..	..	..	200	..		
		Total ..	167,982	262·47	432	14,856	153,558	239·93		
Salem ..	....	.....	..	..	*Nil.*	..	..	..		
Trichinopoly.	Udayárpálaiyam ..	Sripurandan	486	..	..	..	486	..		
		Nagamangalam	400	..	..	..	400	..		
		Total ..	886	1·38	..	..	886	1·38		
Tanjore ..	Northern Range ..	Vettangudi	1,900	..	..	..	1,900	..		
		Andrakadu	64	..	..	..	64	..		
		Settipallam	421	..	..	..	421	..		
		Samudraveli	270	..	..	..	270	..		
		Naluvedapadi	374	..	..	..	374	..		
		Pudugidapatam	66	..	..	..	66	..		
		Tandalai	283	..	..	..	283	..		
	Southern Range ..	Nadur	421	..	..	..	421	..		
		Ichankotai	77	..	..	..	77	..		
		Kollangorai	109	..	..	..	109	..		
		Marungulam	152	..	..	..	152	..		
		Karungulam Melpadi	389	..	..	..	389	..		
		Tachankurchi	161	..	..	..	161	..		
		Pudukudivadapadi	212	..	..	..	212	..		
		Kangiyampatti	67	..	..	..	67	..		
		Kannantangudi Kilayur	232	..	..	..	232	..		
		Puvadur	205	..	..	..	205	..		
		Tirumangalakotai Vulaiyur ..	437	..	..	..	437	..		
		Do. Melaiyur ..	514	..	..	..	514	..		
		Ponnappur	181	..	..	..	181	..		
		Apparasampetai	76	..	..	..	76	..		
		Total ..	6,611	10·33	..	..	6,611	10·33		
North Coimba-tore.	....	.....	..	..	*Nil.*	..	..	..		

Area of Forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or Transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
South Coimbatore.	Udamalpet taluk ..	Fuel reserve of Yeliyamutur ..	63	..	..	..	63	..		
		Do. Tándóni	60	..	..	..	60	..		
		Do. Dhalli	485	..	..	..	485	..		
		Kótamangalam	3	..	..	..	3	..		
		Chinnamalaipalaiyam	9	..	..	..	9	..		
		Gudimangalam	5	..	..	..	5	..		
		Pulamkinar	4	..	..	..	4	..		
		Pákkulum	14	..	..	..	14	..		
		Pulavadi	8	..	..	..	8	..		
		Madatukulum	3	..	..	..	3	..		
	Polláchi taluk ..	Kanatkadavu	8	..	..	..	8	..		
		Sankarayapuram	100	..	..	..	100	..		
		Mutiyampalaiyam	4	..	..	..	4	..		
		Periyakolandai	3	..	..	..	3	..		
		Kotampatti	6	..	..	..	6	..		
	Palladam taluk ..	Arasur	58	..	..	..	58	..		
		Nachipalaiyam	63	..	..	..	63	..		
		Ammapalaiyam	61	..	..	..	61	..		
		Káduvettipalaiyam	82	..	..	..	82	..		
		Perumanallúr	81	..	..	..	81	..		
		Pudupalaiyam	66	..	..	..	66	..		
		Fuel reserve Anupatti	3	..	..	..	3	..		
		Settambalam	3	..	..	..	3	..		
		Kottanúr	3	..	..	..	3	..		
		Manickapuram	5	..	..	..	5	..		
		Tirupur	5	..	..	..	5	..		
		Vadugapalaiyam	8	..	..	..	8	..		
		Ganapadipalaiyam	5	..	..	..	5	..		
		Appanáiyakanpatti	10	..	..	..	10	..		
		Nilambúr	10	..	..	..	10	..		
		Silakarakal	5	..	..	..	5	..		
		Agrarapudúr	5	..	..	..	5	..		
	Bolampatti	At the Tollgate on the road to Tadágam.	9	..	..	..	9	..		
		At the Tollgate east of Puliyankulam road.	55	..	..	..	55	..		
		Total ..	1,312	2·05	..	..	1,312	2·05		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued*.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura ..	No. V. Madura ..	104 tank beds in Tirumangalam taluk.	4,000	6·25	..	..	4,000	6·25		
Tinnevelly ..	....	....	..	..	*Nil*	..	..	..		
Malabar (Wynaad and Pálghat).	....	....	..	..	*Nil*	..	..	..		
Malabar (Nilambúr).	Nilambúr	Pakote	761	..	..	..	761	..		
		Pannangode	859·09	..	..	..	859·09	..		
		Valuvasheri	914	..	..	..	914	..		
		Yedakod	4,358·52	..	..	..	4,358·52	..		
		Arimbrakutta	322	..	..	..	322	..		
		Kanakut	669	..	..	..	669	..		
		Erambadam	581	..	..	..	581	..		
		Kariyan	1,002·10	..	..	..	1,002·10	..		
		Muriyat	1,765	..	..	..	1,765	..		
		Total ..	11,231·71	17·55	..	..	11,231·71	17·55		
South Canara.	....	....	..	..	*Nil*	..	..	..		
		Grand Total ..	196,596·71	307·18	432	17,652	179,376 71	280·27		

Annual Form No. 59-C.

Forest Department, Madras, Southern Circle.

Area of Reserved Lands, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput	Sativedu	Allikuli *	5,649	..	..	..	5,649	..	G.O., No. 311, dated 13th March 1885.	Transferred from 59-B. after deducting 235 acres set apart for the use of villagers, &c. Notified under section 4 of the Forest Act.
		Nágalápuram †	8,333	..	12	..	8,345	..	G.O., No. 1321, dated 30th Nov. 1885.	
		Alamadi	1,263	..	..	..	1,263	..	G.O., No. 1386, dated 19th Dec. 1885.	
		Palavakam	..	..	2,561	..	2,561	..	G.O., No. 940, dated 1st Nov. 1886.	
		Pulrambakam	541	..	..	..	541	..	Board's Procs., No. 3195 / Forest 288, dated 12th Sept. 1884.	
	Chingleput	Vallam	..	..	1,329	..	1,329	..	G.O., No. 53, dated 21st Jan. 1887.	
		Anjur	..	..	1,509	..	1,509	..		
		Nemali	..	..	633	..	633	..		
		Alapakam	..	..	497	..	497	..		
		Tirumani	..	..	639	..	639	..		
		Muttukadu	86	..	..	..	86	..	Board's Procs., No. 1413 / Forest 90, dated 25th April 1884.	
		Vandalúr	3,207	..	..	3,207	..	..	....	Transferred to 59-A.
	Madurántakam	Acharapakam	864	..	..	..	864	..	Board's Procs., No. 3925 / Forest 395, dated 18th Nov. 1884.	
		Latur	1,011	..	..	..	1,011	..		
		Nedumaram	198	..	..	..	198	..		
		Venmani	238	..	..	..	238	..		
		Madaiyambakam	241	..	..	..	241	..		
		Sattamai	135	..	..	..	135	..		
		Kattugudalur	4,273	..	..	..	4,273	..		
		Rajapalaiyam	806	..	..	..	806	..		

* Includes Plasapalaiyam, Hudsonpuram, Embrampuram, Hudsonagaram, Gungulubundla, and Grinvalatam.
† Includes Ramgiri, Krishnapuram, Rappalpatti, and Mudiyur.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput—*cont.*	Madurántakam—*cont.*	Kurambarai	250	..	..	..	250	..	Board's Procs., No. 3925 / Forest 395, dated 18th Nov. 1884.	
		Endatur	168	..	..	..	168	..		
		Tandalam	* 1,587	..	..	† 109·62 ‡ 49·62	1,428	..		
		Sirunallur	503	..	..	..	503	..		
		Kannimangalam	142	..	..	..	142	..		
		Nariyamputur	326	..	..	..	326	..		
		Karukali	600	..	..	..	600	..		
		Kadalamangalam	731	..	..	..	731	..		
		Vadatavur	1,078	..	..	..	1,078	..		
		Vinayaganallur	127	..	..	..	127	..		
		Kunamkolatur	106	..	..	..	106	..		
		Bapanallur	538	..	..	..	538	..		
	Conjeeveram	Katrambakam	601	..	..	..	601	..	Board's Procs., No. 1862 / Forest 354, dated 22nd June 1885.	
		Puduppur	90	..	..	..	90	..		
		Mannur	585	..	..	..	585	..		
	Tiruvallúr	Dasikuppum	339	..	..	339	..	..	....	
		Chenneri	553	..	..	553	..	..	....	Transferred to 59-A. under Ambakam.
		Pudukuppum	958	..	..	958	..	..	....	
		Ambakam	2,300	..	..	2,300	..	..	....	
		Peridam	1,109	..	..	1,109	..	..	....	
		Sattivedu	2,633	..	..	2,633	..	..	....	
		Kotamarikuppum	1,890	..	..	1,890	..	..	....	Transferred to 59-A. under Sattivedu.
		Chinnatipakam	2,336	..	..	2,336	..	..	....	
		Aradur	1,002	..	..	1,002	..	..	....	Transferred to 59-A. under Aradur.
		Racherla	415	..	..	415	..	..	....	
		Moppurpalli	859	..	..	859	..	..	....	
		Cherisu	404	..	..	404	..	..	....	
		Kadur	1,432	..	..	1,432	..	..	....	Transferred to 59-A. under Kadur.
		Nellatur	608	..	..	608	..	..	....	
		Gudalwarpalaiyam	455	..	..	455	..	..	....	
		Santanallur	580	..	..	580	..	..	....	
		Ugumudi	1,441	..	..	1,441	..	..	....	Transferred to 59-A. under Ugumudi, less 22 acres excluded during settlement.
		Damanallur	885	..	..	885	..	..	....	
		Total	54,476	85·12	7,180	23,565·24	38,091	59·52		

* *Vide* Board's Proceedings No. 49, dated 1st February 1887, and the collector's marginal note to his letter printed in it.

† Excess area recently ascertained.

‡ Excluded for cultivation.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot.	Vellore .. Pólúr taluk	Kapalur	1,267	..	..	..	1,267	..	Board's Procs., No. 1385 / Forest 86, dated 24th April 1886.	Demarcated.
		Kelur	3,537	..	..	..	3,537	..		
		Alliyamangalam	10,062	..	..	..	10,062	..		
		The slopes of the Javadi hills in the Polur taluk including jungle at their foot.	32,000	..	..	..	32,000	..	Board's Procs., No. 4214, dated 8th Dec. 1884.	
		Virappanur	..	..	64,000	..	64,000	..	....	Transferred from Salem. Notified under section 4.
		Putur .. Old Tirupatur sandal reserve.	12,800	..	..	..	12,800	..		
		Patrakad. Old Tirupatur timber reserve.	19,200	..	..	..	19,200	..		
	Vellore taluk	Javadi hill block	64,000	..	..	..	64,000	..	Board's Procs., No. 993 / Forest 183, dated 25th March 1885.	
		Arasampet do.								
		Naikneri do.								
		Tellai	15,121·01	..	..	..	15,121·01	..	Board's Procs., No. 2329 / Forest 436, dated 13th Aug. 1885.	
	Chandragiri. Chittoor taluk.	Chittoor	359·64	..	..	..	359·64	..	Board's Procs., No. 2700 / Forest 225, dated 6th Aug. 1884.	
		Santapet	2,276·46	..	..	..	2,276·46	..		
		Airala	6,400	..	..	..	6,400	..	*Vide* Collector's notification in page 42 of Forest Sheet of the District Gazette for Aug. 1884.	
		Panamur	6,400	..	..	..	6,400	..		
		Bommasamudram	1,425·92	..	..	..	1,425·92	..	*Vide* Collector's notification in page 6 of Forest Sheet of the District Gazette for June 1884.	
		Chillapalli	1,295·85	..	..	..	1,295·85	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot —*cont.*	Chandragiri—*cont.* Chittoor taluk —*cont.*	Kinattipalli	1,416·51	..	..	..	1,416·51	..	*Vide* notification in page 6 of Forest sheet of the District Gazette for June 1884.	
	Chandragiri taluk.	Balapalli block	96,000	..	..	..	96,000	..	Board's Procs., No. 2329, dated 13th Aug. 1885.	
		Nagapatla do.								
		Mungilpentla block								
	Head Quarters. Wálajápet taluk.	Gudalur	535·39	..	..	..	535·39	..	Board's Procs., No. 2700 / Forest 225, dated 6th Aug. 1884.	Demarcated; surveyed, and fenced.
		Kolatur	1,779·12	..	..	..	1,779·12	..		
		Ammanur	203·27	..	..	..	203·27	..		
		Uriyur or Anantapuram ..	539·79	..	..	..	539·79	..		
		Banavaram	1,084·55	..	..	* 33·58	1,050·97	..	Board's Procs., No. 1385 / Forest 86, dated 24th April 1884.	Partly demarcated.
		Amur	6,019·52	..	..	..	6,019·52	..		Partly demarcated, surveyed, and fenced.
		Minnel	1,377·59	..	..	..	1,377·59	..		Demarcated and fenced.
		Vikramasi reserve	161	..	..	..	161	..		
		Vedantangal	64·46	..	..	..	64·46	..	Board's Procs., No. 2329 / Forest 436, dated 13th Aug. 1885.	
		Balakrishnapuram	63·40	..	..	..	63·40	..		
		Katupakam	145·24	..	..	..	145·24	..		
		Aiyal	15·83	..	..	..	15·83	..		
		Tenkal	250	..	..	..	250	..		
		Banavaram	..	..	* 34·55	..	34·55	..		
		Head Assistant Collector's Office compound.	* 4	..	..	..	4	..		
	Arcot taluk.	Satur	1,048	..	..	* ·07	1,047·93	..	Board's Procs., No. 2773 / Forest 223, dated 11th Aug. 1884.	
		Sennaleri	356	..	1,319·36	..	1,675·36	..	Board's Procs., No. 4108 / Forest 423, dated 18th Dec. 1884.	

* The result of correction.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.		Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot —*cont.*	Head Quarters—*cont.*	Arcot taluk —*cont.*	Enadivadi	1,566	..	1·15	..	1,567·15	..	Board's Procs., No. 2773 / Forest 223, dated 11th Aug. 1884.	Demarcated.
			Tandalapan tangal	1,154	..	..	* 42·21	1,111·79	..		
			Sholavaram	1,281	..	..	48·87	1,232·13	..		
			Ponnur	939·44	..	..	..	939·44	..	Board's Procs., No. 2700 / Forest 225, dated 6th Aug. 1884.	Demarcated, surveyed and fenced.
		Wandiwash taluk.	Venkundrum	1,288·10	..	..	..	1,288·10	..		
			Badur	873·35	..	..	..	873·35	..		Demarcated.
			Nombidu	720·11	..	..	..	720·11	..		Demarcated, surveyed and fenced.
			Kodiyalam	124·80	..	..	..	124·80	..		
			Nedungal	3,645·10	..	..	..	3,645·10	..	Board's Procs., No. 1385 / Forest 86, dated 24th April 1884.	Demarcated.
			Vishamangalam	1,148·10	..	..	..	1,148·10	..		
			Nedungunam	1,797·18	..	..	..	1,797·18	..		
			Brahmakateri	635·10	..	..	..	635·10	..		
	Palmanér.	Gudiyátam taluk.	Korapatla block	32,000	..	..	..	32,000	..	Board's Procs., No. 2329 / Forest 436, dated 13th Aug. 1885.	
			Petalakuppam block								
			Gundlapalli do.								
			Panamadangi do.								
			Total ..	334,380·83	522·47	65,355·06	124·73	399,611·16	624·39		
South Arcot.	No. I, Tiruvannámalai.		Chinnasamudram	6,000	..	18·81	..	6,018·81	..		
			Anandavadi	6,000	..	..	..	6,000	..		
			Valasamalai	7,000	..	..	..	7,000	..		
			Mudinai	4,000	..	·33	..	4,000·33	..		
			Kavutumalai	6,000	..	·33	..	6,000·33	..		
			Tippakadu	6,000	..	1·42	..	6,001·42	..		
			Perungolatur Swamimalai ..	9,000	..	..	..	9,000	..		
			Tenmalai	20,000	..	..	..	20,000	..		
			Pelamaratur or Gerugamandiyar.	8,000	..	..	..	8,000	..		
			Nallapattu	7,000	..	..	..	7,000	..		
	No. II, Tindivanam ..		Siruvadi	3,333	..	2·31	..	3,335·31	..		
			Muttakadu	3,087	..	7·76	..	3,094·76	..		
			Karai	1,344	..	1·65	..	1,345·65	..		
			Padipallam	3,735	..	..	..	3,735	..		
			Pakamalai	9,026	..	·6·19	..	9,032·19	..		
			Agaram	600	..	1·20	..	601·20	..		
			Merkanam	80	..	·6	..	80·5	..		

* The result of correcton.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. II, Tindivanam—*cont.*	Kurumbaram, 1st bit	300	..	..	..	300	..		
		Do. 2nd do.	150	..	..	..	150	..		
		Kumalampet	1,200	..	21·74	..	1,221·74	..		
		Kilsevur	1,200	..	7·74	..	1,207·74	..		
		Panchalam	1,200	..	·12	..	1,200·12	..		
		Bomnatur	300	..	..	..	300	..		
		Peradikuppam	1,400	..	2·16	..	1,402·16	..		
		Agur	1,200	..	..	..	1,200	..		
		Naduvandur	2,800	..	8·46	..	2,808·46	..		
		Saram	250	..	1·03	..	251·03	..		
		Salavadi	70	..	..	..	70	..		
		Jaggampet	300	..	·16	..	300·16	..		
		Attikuppam	150	..	..	..	150	..		
		Akshikadu	450	..	..	..	450	..		
	No. III, Villupuram	Ganjavaram	8,740	..	..	..	8,740	..		
		Ramapuram	..	..	1,325	..	1,325	..	....	Transferred from 59-B. and 59-D.
		Vellakarai	..	..	1,600	..	1,600	..	....	Transferred from 59-B. and 59-D.
		Valudalampattu	..	..	900	..	900	..	....	
		Sammattikuppam	..	..	350	..	350	..	....	
		Selambanadampetai	..	..	650	..	650	..	....	
		Vadakuttu, third bit or Maringur forest.	..	..	400	..	400	..	....	
		Vadakuttu, second bit or Vegakottai forest.	..	..	600	..	600	..	....	
		Vadakuttu proper, first bit	..	..	2,400	..	2,400	..	....	
	No. IV, Cuddalore	Veludaiyampet	..	..	1,700	..	1,700	..	....	
		Peramatur	..	..	1,700	..	1,700	..	....	
		Kangiruppu, first bit	..	..	2,000	..	2,000	..	....	Transferred from 59-B. and 59-D.
		Do. second bit	..	..	1,240	..	1,240	..	....	
		Velankuppam	..	..	1,000	..	1,000	..	....	Transferred from 59-B.
		Talangoda	..	..	200	..	200	..	....	These are all plantations proposed for reserved forest and now declared as reserved lands. The area given in Form No. 60 is stocked area, whereas the area given here comprises the whole plantation limits and hence the difference of 1,643·52 acres.
		Fort Saint David	..	..	45	..	45	..	....	
		Shanankuppam	..	..	195	..	195	..	....	
		Donidorai	..	..	120	..	120	..	....	
		Nochikadu	..	..	550	..	550	..	....	
		Periyakuppam	..	..	1,600	..	1,600	..	....	
		Total	19,915	187·37	18,657·01	..	138,572·01	216·52		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem.	Salem	Bodamalai	5,600	..	..	5,600	..	..	....	Transferred to 59-A.
		Pillapadi	4,992	..	..	..	4,992	..	District Gazette, dated 6th Dec. 1884.	
		Atur ghât	3,142	..	..	3,142	..	..	....	Transferred to 59-A.
		Mallápuram	2,285	..	..	..	2,285	..	District Gazette, dated 6th Dec. 1884.	
		Nartanchedu	2,400	..	..	..	2,400	..		
		Vaniyar	4,512	..	..	..	4,512	..		
		Kuttar	3,795	..	..	3,795	..	..	....	Transferred to 59-A.
		Manjavadi ghât	8,461	..	..	..	8,461	..	District Gazette, dated 19th Dec. 1884.	
		Kudimadavu	4,307	..	..	..	4,307	..		
		Mallápuram ghât extension	640	..	..	..	640	..	District Gazette, dated 7th March 1885.	
		Ajampatti	1,920	..	..	..	1,920	..		
		Nartanchedu extension	1,088	..	..	1,088	..	..	....	Transferred to 59-A.
		Yerimalai	3,520	..	..	3,520	..	..	....	
		Kanavoipudur	3,200	..	..	..	3,200	..	District Gazette, dated 7th March 1885.	Vadajampatti block of 1,976 acres and Kariyappakombai block of 266 acres are specially protected.
		Lokur	5,312	..	..	..	5,312	..	Do.	Morur block of 799 acres and Ammaneri block of 252 acres are specially protected.
		Pillapallikombai (new)	2,080	..	..	2,080	..	..	....	Transferred to 59-A.
		Atúr ghât extension	544	..	..	544	..	..	....	
		Kanjiri (new)	4,032	..	..	..	4,032	..	....	Kanjiri block of 1,929 acres is specially protected.
		Pannikaradu (new)	4,832	..	..	..	4,832	..	....	Pannikaradu block of 2,645 acres is specially protected.
		Mallápuram	589	..	..	..	589	..	....	Specially protected.
		Karuvattuparai	800	..	1,000	* 1,800	..	..	....	Added by re-measurement.
		Kurumbapatti	10,000	..	..	..	10,000	..	District Gazette, dated 7th Nov. 1885.	
	Atúr	Varagur	2,675	..	..	..	2,675	..	District Gazette, dated 6th Dec. 1884.	

* Transferred to 59-A.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Salem—*cont.*	Atúr—*cont.*	Nayakenkombai	2,880	..	..	..	2,880	..	District Gazette, dated 6th Dec. 1884.	
		Belur	6,880	..	..	6,880	..	..	....	Transferred to 59-A.
		Nagur	3,757	..	..	3,757	..	..	....	
		Pattimedu	3,046	..	..	..	3,046	..	District Gazette, dated 6th Dec. 1884.	
		Nagalur	6,138	..	..	..	6,138	..		
		Tumbal	3,680	..	..	..	3,680	..		
	Námakal	Jambutu	2,617	..	..	2,617	..	..	Do.	Transferred to 59-A.
		Puliyan shola	5,530	..	..	..	5,530	..	Do.	
	Atúr and Námakal	Karuvallikombai	8,755	..	..	8,755	..	..	....	
		Pillapatti	8,000	..	..	8,000	..	..	....	Transferred to 59-A.
		Tumbakal	7,757	..	..	7,757	..	..	....	
		Nochikalli	7,917	..	..	..	7,917	..	District Gazette, dated 6th Dec. 1884.	
	Utenkarai	Kalnad	4,320	..	..	..	4,320	..		
		Chitteri	3,917	..	..	3,917	..	..	....	Transferred to 59-A.
		Karungal	4,320	..	..	..	4,320	..	District Gazette, dated 19th Dec. 1884.	
		Chittiling	6,880	..	..	..	6,880	...		
		Kottapatti	8,960	..	..	8,960	..	..	....	
		Mangalam	6,080	..	..	6,080	..	..	....	Transferred to 59-A.
		Nagalutu	2,560	..	..	2,560	..	..	....	
		Mambakam	9,370	..	..	9,370	..	..	....	
		Kotanur	7,257	..	..	..	7,257	..	District Gazette, dated 19th Dec. 1884.	Transferred to 59-A.
		Pungolum	7,834	..	..	7,834	..	..		
		Garuggamundi	1,280	..	..	..	1,280	..	Do.	
	Tirupatúr	Madagatar	3,200	..	..	..	3,200	..	Do.	
		Mattakadapa	2,048	..	..	2,048	..	..	....	
		Jolarpet	1,216	..	..	1,216	..	..	....	Transferred to 59-A.
		Narasingapuram	2,048	..	..	2,048	..	..	....	
		Kalvapatti	2,016	..	..	2,016	..	..	....	
		Alangayam	11,520	..	..	..	11,520	..	District Gazette, dated 7th Feb. 1885.	
		Andiyappanur	4,704	..	..	..	4,704	..		
		Kallavi	4,160	..	..	..	4,160	..		
		Puvampatti	4,672	..	..	4,672	..	..	....	Transferred to 59-A.
	Utenkarai	Poiyapatti	3,488	..	..	..	3,488	..	District Gazette, dated 7th Feb. 1885.	
		Mórapúr	4,000	..	..	..	4,000	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Salem—*cont.*	Utenkarai—*cont.*	Harur (new)	1,901	..	..	..	1,901	..	District Gazette, dated 7th Feb. 1885.	
		Tirtamalai	11,046	..	..	..	11,046	..		
		Utenkarai (new)	3,200	..	..	..	3,200	..		
		Wumagiri	2,944	..	..	..	2,944	..		
		Vepampatti	8,640	..	..	..	8,640	..	District Gazette, dated 17th Feb. 1885.	
		Kalladipatti	2,912	..	..	..	2,912	..		
		Tenkaraikota	2,368	..	..	..	2,368	..	District Gazette, dated 7th March 1885.	
		Kowramalai	8,512	..	..	..	8,512	..		
		Ammapalaiyam	9,216	..	..	..	9,216	..		
		Singarapet	2,624	..	..	..	2,624	..		
	Tirupatur and Utenkarai	Singarapet extension	7,398	..	..	..	7,398	..	District Gazette, dated 19th Dec. 1884.	
		Govindapuram	3,104	..	..	..	3,104	..	District Gazette, dated 7th Feb. 1885.	
	Hosúr	Aiyur	5,952	..	..	..	5,952	..	District Gazette, dated 19th Dec. 1884.	Mailagiri block of 5,461 acres is specially protected.
		Marandahalli	5,824	..	..	..	5,824	..		Kanavoikotapalli block of 742 acres is specially protected.
		Gulhatti (new) *	7,942	..	..	..	7,942	..		
		Toluvabetta †	6,918	..	..	..	6,918	..		Manchi block of 3,305 acres is specially protected.
		Manchi (new)	5,632	..	..	..	5,632	..		
		Anchetti	8,832	..	..	..	8,832	..		
		Natrapalaiyam	10,880	..	..	..	10,880	..		
		Biligundla	14,272	..	..	..	14,272	..		
		Kestur	11,616	..	..	..	11,616	..	District Gazette, dated 10th Jan. 1885.	
		Bilikal	11,136	..	..	..	11,136	..		
		Malahalli	8,928	..	..	..	8,928	..		
		Taggatti	10,432	..	..	..	10,432	..		
		Halibandai	7,360	..	..	..	7,360	..		
		Pani	5,856	..	..	..	5,856	..		
		Javalagiri	6,016	..	..	..	6,016	..		
		Talli	6,368	..	..	..	6,368	..		
		Kundrakota	4,768	..	..	..	4,768	..		
		Sivanhalli	4,992	..	..	..	4,992	..		
		Naganur	3,200	..	..	..	3,200	..		
		Denkanikota	2,816	..	..	..	2,816	..		
	Dharmapuri	Pennagaram	10,304	..	..	..	10,304	..		
		Morapur	16,640	..	1,200	..	17,840	..		By re-measurement.

* Gulhatti block of 3,248 acres is specially protected.

† Kanavanagasun dram block of 416 acres is specially protected.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Hosúr and Dharmapuri ..	Woddapatti	17,152	..	..	..	17,152	..	District Gazette, dated 19th Dec. 1884.	
	Dharmapuri and Hosúr ..	Gutirayan	15,776	..	..	..	15,776	..	District Gazette, dated 10th Jan. 1885.	
	Krishnagiri	Maharajagadai	10,304	..	..	..	10,304	..		
		Neralkota	7,040	..	..	..	7,040	..		
		Bargur (new)	1,920	..	..	..	1,920	..	District Gazette, dated 7th Feb. 1885.	Bargur block of 220 acres is specially protected.
		Togarapalli	500	..	401	..	901	..	District Gazette, dated 7th Mar. 1885.	Togarapalli block of 499 acres is specially protected.
	Krishnagiri and Tirupatúr.	Kotur	3,840	..	..	..	3,840	..	District Gazette, dated 7th Feb. 1885.	Pudur block of 1,069 acres is specially protected.
	Tirchengód	Pakkanad	..	..	7,000	..	7,000	..	Board's Procs., No. 610, dated 21st Nov. 1886.	Notified under sec. 4, F.S.G.G., dated 9th Nov. 1886, pages 1008, 1009.
		Surimalai	..	..	7,500	..	7,500	..	Do. do.	Notification No. 902, F.S.G.G., dated 9th Nov. 1886, pages 1008, 1009.
		Total ..	550,614	860·33	17,101	110,056	457,659	715·09		
Trichinopoly.	Trichinopoly	Tuvagudi	1,438	..	..	..	1,438	..	....	Notified under section 4.
		Ettarai	..	..	* 483	..	483	..	Board's Procs., Forest No. 263, dated 17th May 1886.	
		Adavatur, No. 1	..	..	* 369·81	..	369·81	..		
		Adavatur, No. 2	..	..	* 330·58	..	330·58	..		
		Valur	..	..	* 381·74	..	381·74	..		
		Kotrapatti	..	..	* 210·74	..	210·74	..		
		Natarajapuram	..	..	* 108·85	..	108·85	..		
		Alandur	..	..	* 149·04	..	149·04	..		
		Adavatur	..	..	144	..	144	..	Board's Procs., Forest No. 561, dated 15th Oct. 1886.	Tank beds.
		Punganur	..	..	281	..	281	..		
	Kulitalai	Viramalai Hills	2,000	..	..	..	* 2,000	..	....	Notified under section 4.
		Poiyapatti do.	720	..	..	† 81	* 639	..	....	

* Approximate area only. Areas of putta lands excluded.

† 57 acres excluded by Forest Settlement Officer.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
		No. I, Shemmalai	500	..	..	† 100	*400	..	....	Notified under section 4.
		No. II, Shemmalai	500	..	..	..	*500	..	....	
		Pakkarikaradu	300	..	..	..	*300	..	....	
		Puttanatam range comprising Kuramalai. Pulamalai and Nadumalai ..	500	..	..	..	*500	..	....	
		Surpam	700	..	..	..	*700	..	....	
		Pettuvoitalai	137	..	..	137	..	..	....	Transferred to 59-A.
		Maradur	180	..	..	..	*180	..	....	Notified under section 4.
	Kulitalai—*cont.* ..	Mayanur	50	..	..	..	* 50	..	....	
		Pudur	..	..	141	..	141	..	Board's Procs., Forest No. 561, dated 15th Oct. 1886.	
		Sakkanam	..	..	119	..	119	..		
		Mahadanapuram	..	..	191	..	191	..		
		Pillapalaiyam ‡	..	..	10·73	..	10·73	..		
		Vengampatti ‡	..	..	102·50	..	102 50	..		
		Punjantangi hill valley ..	..	..	286	..	*286	..	No. 135, F.S.G.G., dated 22nd Mar. 1887.	Notified under section 4.
		Tani and Sengamakaradu ..	..	..	800	..	*800	..		
		Madalamalai	..	..	500	..	*500.	..		
Trichinopoly —*cont.*		Karupur	..	..	2,000	..	*2,000	..		
		Reddipatti hill	..	..						
		Sengattupatti	2,000	..	1,000	*3,000	..	..	....	Transferred to 59-A.
		Melur	2,000	..	1,000	*3,000	..	..	....	
		Omalur	..	..	320·54	..	*320·54	..	Board's Procs., Forest No. 263, dated 17th May 1886.	
		Tolaiyanatam and Kotarapatti ..	..	..	332·92	..	*332·92	..		
		Tirutalaiyur	..	..	125·14	..	*125·14	..		
		Yedumalai	..	..	959·04	..	*959·04	..		
		Vellakalpatti	..	..	1,223·92	..	*1,223·92	..		
		Pulivalam	..	..	521·98	..	*521·98	..		
	Musiri	Mavalipatti	..	..	1,010·26	..	*1,010·26	..		
		Visalatchyammalsamudram ..	..	..	137·76	..	*137·76	..		
		Manalodai	3,000	..	1,000	4,000	..	..	....	Transferred to 59-A.
		Salamatti	5,000	..	2,000	7,000	..	..	....	
		Kaliammankovil	..	..	1,500	..	*1,500	..	No. 135, F.S.G.G., dated 22nd Mar. 1887.	Notified under section 4.
		Karuppankadu tittu	..	..	2,000	..	*2,000	..		
		Kanapadi Kannimar solai ..	..	..	2,560	..	*2,560	..		
		Silaiyur	..	..	1,600	..	*1,600	..		
		Valaiyur	..	..	3,480	..	*3,480	..		

* Approximate area only. Areas of putta lands excluded. † Excluded pending settlement of dispute.

‡ Transferred from Form No. 60, Ambasamudram, of which these two tank beds formerly formed a portion.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly —*cont.*	Musiri—*cont.*	Munmalai	..	..	3,000	..	* 3,000	..	No. 135, F.S.G.G., dated 22nd Mar. 1887.	Notified under section 4.
		Kanjurmalai and Uduvampattimalai.	..	..						
		Kanapadi (Tenparanad)	..	..	12,000	..	* 12,000	..		
		Kanapadi (Vannad)	..	..	10,000	..	* 10,000	..		
		Palamalai	..	..	15,000	..	* 15,000	..		
	Perambalúr	Kannam	..	..	194·54	..	* 194·54	..	Board's Procs., Forest No. 263, dated 17th May 1886.	
		Kotavasal	..	..	166·77	..	* 166·77	..		
		Koraipadai	..	..	220·74	..	* 220·74	..		
		Sengatur	..	..	10,000	..	* 10,000	..		
		Valaiyur	..	..	3,000	..	* 3,000	..		Notified under section 4.
		Semmalai	..	..	5,000	..	* 5,000	..		
		Puliyur	..	..	10,000	..	* 10,000	..		
		Jayankondacholapuram	..	..	80	..	* 80	..		
		Jayankondacholapuram	..	..	250	..	* 250	..		
		Vanavanullur	..	..	250	..	* 250	..		
		Malangankudisemppu	..	..	100	..	* 100	..		
		Kodukur	..	..	150	..	* 150	..		
		Kanjuli	..	..	800	..	* 800	..		
		Aiyur	..	..	1,320	..	* 1,320	..		
		Tirukanam	..	..	700	..	* 700	..		
		Pasikulam	..	..	100	..	* 100	..		
		Adanakurchi	..	..	250	..	* 250	..		
		Sittedaiar	..	..	50	..	* 50	..		
	Udayárpálaiyam	Kulamur	..	..	200	..	* 200	..	Board's Procs., Forest No. 232, dated 5th May 1886.	
		Periyakurchi	..	..	150	..	* 150	..		
		Sattambadi	..	..	800	..	* 800	..		
		Alavai	..	..	300	..	* 300	..		
		Ambapur	..	..	200	..	* 200	..		
		Ulliyagudi	..	..	200	..	* 200	..		
		Sundreswarapuram	..	..	150	..	* 150	..		
		Periyapalaiyam	..	..	950·55	..	* 950·55	..		
		Vettiyarvettu	..	..	460	..	* 460	..		
		Kovilur	..	..	640	..	* 640	..		
		Mudukulam	..	..	1,170·33	..	* 1,170·33	..		
		Velangudi	..	..	890·45	..	* 890·45	..		
		Total	19,025	29·73	106,123·93	17,318	107,830·93	168·49		

* Approximate area only. Areas of putta lands excluded.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tanjore ..	Southern Range. Tiruturaipúndi taluk.	Kodiyakadu (Point Calimere) ..	4,355	6·80	..	..	4,355	6·80	Board's Procs., No. 3052 / Forest 607, dated 6th Nov. 1885.	Notified under section 4. *Vide* G.O., No. 59, dated 22nd January 1887.
North Coimbatore.	Erode taluk	Udayarpalaiyam	506	..	..	..	506	..	Board's Procs., No. 3513 / Forest 323, dated 10th Oct. 1884.	
		Pulankulam	296	..	..	..	296	..		
		Karumanjirai	98	..	..	..	98	..		
		Kannatur	181	..	..	..	181	..		
		Vellaraivelli	57	..	..	..	57	..		
		Sinniyampalaiyam	327	..	..	..	327	..		
		Madatupalaiyam	131	..	..	..	131	..		
		Karukampalaiyam	249	..	..	..	249	..		
		Tingalur	336	..	..	..	336	..		
		Papampalaiyam	183	..	..	..	183	..		
		Palanayakampalaiyam	296	..	..	..	296	..		
		Nichampalaiyam	1,024	..	..	..	1,024	..		
		Pandiyanpalaiyam	644	..	..	..	644	..		
		Singanallur	594	..	..	..	594	..		
		Pettampalaiyam	291	..	..	..	291	..		
		Kanjikovil	1,344	..	..	..	1,344	..		
		Avalpunturai	93	..	..	..	93	..		
		Tuyampunturai	123	..	..	..	123	..		
		Tenmugamnellodu	47	..	..	..	47	..		
		Pungampadi	60	..	..	..	60	..		
		Ingur	461	..	..	..	461	..		
		Perundurai	620	..	..	..	620	..		
		Palakarai	48	..	..	..	48	..		
		Nallampatti	475	..	..	..	475	..		
		Sullipalaiyam	227	..	..	..	227	..		
		Ponmudi	131	..	..	..	131	..		
		Karandipalaiyam	134	..	..	..	134	..		
		Mettupudur	215	..	..	..	215	..		
		Chinnavirasangili	550	..	..	..	550	..		
		Periyavirasangili	357	..	..	..	357	..		
		Mungilpalaiyam	222	..	..	..	222	..		
		Kambaliyampalaiyam	98	..	..	..	98	..		
		Varapalaiyam	205	..	..	..	205	..		
		Kongampalaiyam	177	..	..	..	177	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Coimbatore—*cont.*	Erode taluk—*cont.*	Nadupatti	214	..	..	..	214	..	Board's Procs., No. 3153 / Forest 323, dated 10th October 1884.	
		Pudurpallapalaiyam	230	..	..	..	230	..		
		Sundakoipalaiyam	280	..	..	..	280	..		
		Chinnagoundanvalasi	79	..	..	..	79	..		
		Vittalampatti	365	..	..	..	365	..		
		Veliyampatti	136	..	..	..	136	..		
		Virumandapalaiyam	904	..	..	..	904	..		
		Muttampalaiyam	376	..	..	..	376	..		
		Sengapalli	535	..	..	..	535	..		
		Tenmugam Kangayampalaiyam	117	..	..	..	117	..		
		Reddiyapalaiyam	107	..	..	..	107	..		
		Utukuli	170	..	..	..	170	..		
		Vadugapalaiyam	45	..	..	..	45	..		
		Rakkiyapalaiyam	30	..	..	..	30	..		
		Kavandampalaiyam	95	..	..	..	95	..		
		Morattupalaiyam	272	..	..	..	272	..		
		Sirkar Periyapalaiyam	45	..	..	..	45	..		
		Do. Kattangani	174	..	..	..	174	..		
		Ichipalaiyam	199	..	..	..	199	..		
		Sirukalanji	491	..	..	..	491	..		
		Dalavaipalaiyam	710	..	..	..	710	..		
		Vayipadi	750	..	..	..	750	..		
		Kuttampalaiyam	63	..	..	..	63	..		
		Punjai Palatoluvu	763	..	..	..	763	..		
		Nanjai do.	37	..	..	..	37	..		
		Kodumanal	77	..	..	..	77	..		
		Orattapalaiyam	115	..	..	..	115	..		
		Pudupalaiyam	510	..	..	..	510	..		
		Yellaigramam	255	..	..	..	255	..		
		Attavanaipidari	58	..	..	..	58	..		
		Mukasipidari	205	..	..	..	205	..		
		Srunamalai	2,147	..	..	..	2,147	..		
		Murungaitotuvu	80	..	..	..	80	..		
		Arachalur	4,163	..	..	..	4,163	..		
		Kongadayampalaiyam	137	..	..	..	137	..		
		Kollankovil	725	..	..	..	725	..		
		Kontalam	208	..	..	..	208	..		
		Sivagiri	345	..	..	..	345	..		
		Villakatti	559	..	..	..	559	..		
		Kagam	161	..	..	..	161	..		
		Kolaivilaku	195	..	..	..	195	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Coimbatore—*cont.*	Karúr taluk	Karavalli	65	..	..	..	65	..	Board's Procs., No. 2203 / Forest 420, dated 28th July 1885.	
		Munnur	121	..	..	..	121	..		
		Kuppam	232	..	..	..	232	..		
		Punjaipugalur	71	..	..	..	71	..		
		Nerur	131	..	..	..	131	..		
		Pavitram	144	..	..	..	144	..		
		Punjaikalakurchi	81	..	..	..	81	..		
		Gudalur	96	..	..	..	96	..		
		Modukur	130	..	..	..	130	..		
		Inanganur	174	..	..	..	174	..		
		Sendamangalam	2,054	..	..	..	2,054	..		
		Kakkavadi Pichampatti	187	..	..	..	187	..		
		Talipatti	141	..	..	..	141	..		
	Satyamangalam	Block, No. I	224,000	..	..	..	224,000	..	Board's Procs., No. 2535 / Forest 480, dated 2nd Sept. 1885.	
		Do. II								
	Kollegál	Do. I	249,600	..	..	..	249,600	..		
		Do. II								
		Do. III								
	Bhavání	Do. I	140,800	..	..	..	140,800	..		
		Eastern slopes of the Nílgiris	48,000	..	..	48,000	..	..	....	Transferred to 59-A.
		Total	693,954	1,084·30	..	48,000	645,954	1,009·30		
South Coimbatore.	Coimbatore taluk—Sholakarai range	Small Sholakarai Reserve	..	..	80·5	..	* 80·5	..	Notification in District Gazette, dated 3rd Oct. 1885, in accordance with Board's Procs., No. 2116 / Forest 398, dated 16th July 1885.	
	Palladam taluk	Alatur	237	..	..	..	237	..		
		Ammapalaiyam	119	..	..	..	119	..		
		Arasur	94	..	..	..	94	..		
		Asanellipalaiyam	160	..	..	..	160	..		
		Avanashi	55	..	..	..	55	..		
		Ichipatti	639	..	..	..	639	..		
		Iduvai	125	..	..	..	125	..		
		Ittivirampalaiyam	581	..	..	..	581	..		
		Kadirampalaiyam	188	..	..	..	188	..		
		Kaduvettipalaiyam	80	..	..	..	80	..		
		Kalipalaiyam	123	..	..	..	123	..		
		Kandampalaiyam	92	..	..	..	92	..		
		Kaniyampalaiyam	156	..	..	..	156	..		
		Kaniyur	820	..	..	..	820	..		
		Karadibari	50	..	..	..	50	..		

* This area should have been included last year but was omitted by mistake.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Coimbatore—*cont.*	Palladam taluk—*cont.*	Karaipudur	92	..	..	..	92	..		
		Karavalur	522	..	..	..	522	..		
		Kurumbapalaiyam	299	..	..	..	299	..		
		Korumatampatti	306	..	..	..	306	..		
		Kodangipalaiyam	121	..	..	..	121	..		
		Kuppandupalaiyam	69	..	..	..	69	..		
		Kuttagam	582	..	..	..	582	..		
		Mangarasuvalayapalaiyam	271	..	..	..	271	..		
		Moparipalaiyam	163	..	..	..	163	..		
		Naranapuram	556	..	..	..	556	..		
		Narayampalli	51	..	..	..	51	..		
		Nilambur	113	..	..	..	113	..		
		Papakulam	103	..	..	..	103	..		
		Paruvai	76	..	..	..	76	..		
		Pattampalaiyam	126	..	..	..	126	..		
		Perumanullur	159	..	..	..	159	..		
		Perunkarunaipalaiyam	53	..	..	..	53	..		
		Pudupalaiyam	793	..	..	..	793	..		
		Pulippar	72	..	..	..	72	..		
		Puluvapatti	111	..	..	..	111	..		
		Pumalur	291	..	..	..	291	..		
		Rakkiyapalaiyam	278	..	..	..	278	..		
		Samalapuram	52	..	..	..	52	..		
		Settipalaiyam	159	..	..	..	159	..		
		Sennaripalaiyam	75	..	..	..	75	..		
		Sokkanur	132	..	..	..	132	..		
		Sukkampalaiyam	479	..	..	..	479	..		
		Tandagarampalaiyam	83	..	..	..	83	..		
		Tattanur	290	..	..	..	290	..		
		Tekkalur	389	..	..	..	389	..		
		Taranallur	82	..	..	..	82	..		
		Tulukamutur	60	..	..	..	60	..		
		Uppilipalaiyam	99	..	..	..	99	..		
		Vadugapalaiyam	57	..	..	..	57	..		
		Vadugapalaiyam	293	..	..	..	293	..		
		Vallipuram	52	..	..	..	52	..		
		Velampalaiyam	81	..	..	..	81	..		
		Velampalaiyam	75	..	..	..	75	..		
		Virapundi	175	..	..	..	175	..		
		Total	11,359	17·75	80·5	..	11,439·5	17·87		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Area.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura ..	No. I. Periyakulam ..	Kutinachiyar	640	..	..	640	..	..	....	Transferred to 59-A.
		Pandaratorai	300	..	..	300	..	..	....	Transferred to 59-A.
		High waving mountain slopes ..	960	..	..	960	..	..	....	Includes Vannathiparai and Kutinachiyar blocks.
		Kombai	6,400	..	..	..	6,400	..	....	
		Surulipatti	..	..	5,760	..	5,760	..	No. 208, *Fort St. George Gazette*, dated 4th June 1886, and published at page 6 of Forest sheet, dated 15th July 1886.	Notified under section 4.
		No. I. Vellaikaradu	965·24	..	..	..	965·24	..		
		,, II. Sonaikaradu	181·72	..	..	..	181·72	..		
		,, III. Mottaikaradu	192·34	..	..	..	192·34	..		
		,, IV. Kuttaikaradu	125	..	..	..	125	..		
		,, V. Nagarmalaikaradu ..	118	..	..	..	118	..		
		,, VI. Perumalmalaikaradu ..	573	..	..	..	573	..		
		,, VII. Sanniyasikovilkaradu ..	283·20	..	..	..	283·20	..		
		Murugamalai fuel and fodder reserves.	3,226	..	..	..	3,226	..		
		Talaiarkadu	1,056	..	..	* 1,056	..	..	....	730 Transferred to 59-A.
		Varattarkanal								
		Iruttarkanal								
		Kadamaravu								
		Nochiyarkadu								
		Talaiar Andarkovil kadu ..								
	No. II. Kodaikánal ..	The southern slopes of the Palni hills.	25,600	..	..	..	25,600	..		
		The eastern slopes of the Palni hills.								
		The northern slopes of the Palni hills.								
		All the lands on the Lower Palni hills lying outside the limits of certain cultural waste selected and set apart.	32,000	..	..	..	32,000	..		

* A more accurate area of these blocks having been ascertained since the settlement, only 730 acres have been entered in 59-A. The balance 326 acres being the result of the original rough estimate have been altogether omitted.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II. Kodaikánal—*cont.*	Manjakarikadu	1,600	..	..	..	1,600	..		
		Vanjankanal								
		Alayadikanal								
		Chekodikanal								
		Kadagatadikadu								
		Koviladikanal								
		Kumalarakadu								
		Talakodaikadu								
		Tinikuttukadu								
		Ponvettukanal								
		Periyasolaikadu								
		Poliyapattimalai								
		Elamalai								
		Nadumbaraikadu								
		Perumalmalai	..	..	12,800	..	12,800	..	No. 208, *Fort St. George Gazette*, dated 4th June 1886, and published at pages 7 to 9 of Forest sheet, dated 15th July 1886.	Notified under section 4.
		Arankanal	..	..	2,560	..	2,560	..		
		Kallar	..	..	9,600	..	9,600	..		
		Kadugatadikadu	..	..	1,280	..	1,280	..		
		Oliyanutodai	..	..	3,200	..	3,200	..		
	No. III. Dindigul and No. IV. Melúr ..	Karandamalais	..	..	22,400	..	22,400	..		Transferred from 59-D and notified under section 4.
		Panjantangi hills	..	..	3,200	..	3,200	..		
		Waggatumalai F. and F. Reserves	4,200	..	..	..	4,200	..		
		Kachakatti do. ..	1,694	..	..	..	1,694	..		
		Tirupurankundram hill ..	960	..	..	..	960	..		
		Elephant rock	640	..	..	..	640	..		
	No. V. Madura ..	Ammanamalai	1,600	..	..	..	1,600	..		
		Muttupattimalai								
		Vandiyurkaradu								
		Nalladevanpatti karadu ..	1,920	..	..	..	1,920	..		
		Total ..	85,234·50	133·18	60,800	2,956	143,078·50	223·58		
Tinnevelly ..	Nángunéri	Block No. I (*a*)	25,999	..	..	..	25,999	..	These have been notified as proposed Reserved Forests under section 4 of the Forest Act, *vide* G.O., No. 149, dated 23rd February 1886.	Notification under section 16 has not yet issued.
	Ambásamudram	Block No. II (*a* and *b*) ..	61,856	..	..	..	61,856	..		
	Tenkási	Block No. III (*a*, *b* and *c*) ..	14,032	..	..	..	14,032	..		
	Sankaranainárkovil ..	Block No. IV (*a*)	30,713	..	..	..	30,713	..		
	Srívilliputur	Block No. V (*a*)	40,006	..	..	..	40,006	..		
	Ambásamudram ..	Mulimalai	457·10	..	..	..	457·10	..		
		Kalyaniammankovilparai ..	309·33	..	..	..	309·33	..		
		Koviladiparai	125	..	..	..	125	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tinnevelly—*cont.*	Ambásamudram—*cont.*	Salupparpadai	71	..	..	..	71	..		
		Kolandamamalai	1,540	..	..	..	1,540	..		
	Tenkási	Okkanindranpadai	85	..	..	..	85	..		
		Kavalpattiparamba	375	..	..	..	375	..		
		Kottamalai	860	..	..	..	860	..		
		Nalankurchi	212	..	..	..	212	..		
	Sankaranainárkovil	Chunnambuparai	286	..	..	..	286	..		
		Seiyamalai	195	..	..	..	195	..		
		Vedamalai	99	..	..	..	99	..		
	Srivilliputur.	Kottankulam	630	..	..	..	630	..		
		Sappaniparamba	376	..	..	..	376	..		
		Pulpadaiparamba	51	..	..	..	51	..		
		Valaikulamparamba	1,120	..	..	..	1,120	..		
		Onnipattimalai	530	..	..	..	530	..		
		Martandramparai	135	..	..	..	135	..		
	Tinnevelly	Talaiyuttu	891	..	..	..	891	..		
		Sivalaparaiparamba	263	..	..	..	263	..		
	Tenkarai	Kottamadaki	1,279·23	..	..	..	1,279·23	..		
		Kudiraimalai	13,418·41	..	..	..	13,418·41	..		
		Panamparai	117	..	..	..	117	..		
		Kongrayakurchi	77·64	..	..	..	77·64	..		
		Kaliyarkadu	158·07	..	..	..	158·07	..		
		Vallanad hills	4,667	..	..	..	4,667	..		
	Otapidáram	Milavittan	674	..	..	..	674	..		
		Virusampatti	294	..	..	..	294	..		
		Vaipar	813	..	..	..	813	..		
		Total	202,714·35	316·74	..	..	202,714·35	316·74		
Malabar (Wynaad and Pálghat).	Wynaad	Palapattur	861	..	..	..	861	..	....	Excluded portions of the Chedlet Teak forest at the settlement of 1884-85. The Chedlet forest was declared as reserved land in 1884-85. *Vide* District Gazette, dated 5th July 1884.
		Vengur	2,013	..	..	..	2,013	..	....	
		Chedlet	572	..	..	..	572	..	....	
		Karapur	1,221	..	..	..	1,221	..	....	
		Kallur	3,757	..	..	..	3,757	..	....	
		Excluded portions of Trans-Beni Forest at the Forest Settlement of 1884-85.	4,300	..	..	..	4,300	..	....	The Trans-Beni Forest was declared as reserved land in 1884-85. *Vide* District Gazette, dated 5th July 1884.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Malabar (Wynaad and Pálghat)—*cont.*	Wynaad—*cont.* ..	Kudrakot	26,134	..	..	* 4,632	21,502	..	....	Notified for reservation under section 4 in October 1884.
		Padri	22,400	..	† 8,068	..	30,468	..	....	
		Cardamom forest	13,440	..	† 243	..	13,683	..	....	
		Kanot	25,600	..	..	..	25,600	..	....	Notified for reservation under section 4 in May 1885.
		Chapparam	..	..	‡ 112	..	112	..	....	Notified for reservation under section 4 in Nov. 1885.
		Pannujatta	..	..	‡ 150	..	150	..	....	Do. do.
		Advankunnu	..	..	39·36	..	39·36	..	....	Notified for reservation under section 4 in May 1886.
		Chattamkulangara paramba ..	30	..	..	..	30	..	Not notified under Section 4.	
		Tampurattipettai alias Pilacheripallam	100	..	..	..	100	..	Declared as reserved land in 1884. *Vide* District Gazette, dated 5th July 1884.	
	Pálghat	Tiruvazhamkunnu alias Panakadam	1,000	..	..	..	1,000	..		
		Chenatnair forest	16,369	..	..	§ 1,166	15,203	..	....	Final notification under Sec. 16 to have effect from 1st June 1887, published in *Fort St. George Gazette*, dated 5th April 1887.
		Total ..	¶ 117,797	184·06	8,612·36	5,798	120,611·36	188·46		

* Cultivated area. Hence the exclusion.
† Additional area since ascertained.
‡ Erroneously considered as having been included in the "Cardamom forest" (*vide* foot note page 75 of the report for 1885-86), but since ascertained not to be the case. Hence the addition.
§ Excluded.
¶ It was 117,794 in the previous report. Arithimetical error.

N.B.—1. The cultivated area in Kudrakot since ascertained has been excluded.
2. Additional area in Padri since ascertained has been added.
3. Additianal area in Cardamom forest since ascertained has been added.
4. The Chapparam and Pannujatta forests were erroneously considered as having been included in the "Cardamom forest," but since ascertained not to be the case; hence added during the year.
5. The area of the Chenatnair forest on the 31st March 1886 was the area as notified for reservation under section 4 of the Act, but the area entered at the close of the year, *viz.*, 15,203 acres is the finally settled area excluding the portions claimed by neighbouring owners where claims were admitted. The area now entered has been verified by the Survey Department.
6. The total area of the Reserved Land in Malabar (Wynaad and Pálghat) on the 1st April 1886, should be 117,797 acres and not 117,794 acres as printed in Conservator's Annual Report for 1885-86, page 74. Correct figure has been adopted.
7. In the printed copy of the Conservator's Annual Report, Chattamkulangara paramba was stated to have been notified for reservation under section 4 which is not the case.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Malabar (Nilambûr).	..	....	..	..	..	..	..	..		
South Canara.	Mangalore	No. V. Ullal plantation. { Casuarina.	16·50	..	..	..	55·50	..	G.O., 11th Nov. 1886, No. 963, Revenue, communicated in Board's Proceedings, dated 4th December 1886, Forest No. 659.	
		{ Honne ..	39·00	..	..	..				
		No. X. Tannir Bhavi ..	..	..	50	..	50	..	G.O., No. 1097, dated 17th Dec. 1886, Revenue, communicated in Board's Proceedings, dated 24th Jan. 1887, Forest No. 27.	
		No. XI. Todai Reserve ..	..	..	960	..	960	..		
		No. XII. Hosabetta Reserve ..	..	..	1,600	..	1,600	..		
	Mangalore and Udipi ..	No. XIII. Mujimalai Reserve ..	..	..	3,200	..	3,200	..		
	Udipi and Kondapur ..	No. VII. Tenkahola	..	..	1,920	..	1,920	..	G.O., 11th Nov. 1886, No. 963, Revenue communicated in Board's Proceedings, dated 4th Dec. 1886, Forest No. 659, supplemented by G.O., No. 1130 of 22nd February 1887, communicated in Board's Proceedings, dated 4th March 1887, Forest No. 138, Miscellaneous.	
	Udipi	No. VIII. Chinkaramale ..	..	..	2,560	..	2,560	..		
		No. VI. Manajekadu	..	..	1,280	..	1,280	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Canara—*cont.*	Udipi—*cont.*	No. XIV. Durgamalai ..	..	..	1,920	..	1,920	..	G.O., dated 28th Feb. 1887, Revenue, communicated in Board's Proceedings, Forest No 154, dated 18th March 1887.	
	Uppinangudi	No. I. The Siradi Sisla Reserve*.	19,200	..	..	..	19,200	..		
		No. II. Darmastala Mandaji Reserve.	9,600	..	..	..	9,600	..		
		No. III. The Charmadi Kanapadi Reserve.	12,800	..	..	..	12,800	..		
		No. IV. The Bagimale Reserve*.	6,400	..	..	..	6,400	..		
	Kásaragód	No. IX. Parappa	..	..	7,680	..	7,680	..	G.O., 11th Nov 1886, Revenue, communicated in Board's Proceedings, dated 4th December 1886, Forest No. 659.	
		Total ..	48,055·50	75·08	† 21,170	..	69,225·50	108·16		
		Grand Total ..	2,241,880·18	3,502·93	305,079·86	207,817·97	2,339,142·07	3,654·91		

* These two blocks will be constituted reserved forests from 1st June 1887, *vide* G.O., dated 31st March 1887, No 344, Revenue, communicated in Board's Proceedings of 31st March 1887, Forest No. 240.
† 130 acres transferred from 59-D, 21,040 acres newly added acres—total 21,170.

ANNUAL FORM No. 59-D.

Forest Department, Madras, Southern Circle.

Area of other Forests, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput.	..	....	..	..	..	..	..	..		
North Arcot.	..	....	..	..	..	..	..	..		
South Arcot.	Tiruvannámalai.	Tenmalai ..	16,960	..	..	..	16,960	..		
		Tandrampet ..	20	..	..	..	20	..		
		Kadambai ..	280	..	..	..	280	..		
		Kannamadi ..	25,600	..	..	..	25,600	..		
		Nattampallai ..	2,560	..	..	..	2,560	..		
		Ravandivadi ..	12,800	..	..	..	12,800	..		
		Porasapet ..	15,360	..	..	..	15,360	..		
		Sirupakam ..	11,520	..	..	..	11,520	..		
		Erayur Malai ..	5,120	..	..	..	5,120	..		
		Nukambadi Morkulam.	32,000	..	..	..	32,000	..		
		Rasimalai ..	19,200	..	..	..	19,200	..		
		Veppur	25,600	..	..	..	25,600	..		
		Bimarapatti Attipadi.	19,200	..	..	..	19,200	..		
		Kaludaikatti Malai.	7,040	..	..	..	7,040	..		
		Sannamalai ..	10,880	..	..	..	10,880	..		
		Tachampet including Attipakam.	29,080	..	..	..	29,080	..		
		Kolamanjanur ..	3,200	..	..	..	3,200	..		
		Pudupalaiyam ..	6,400	..	..	..	6,400	..		
		Tiruvannamalai timber yard.	4	..	..	..	4	..		
		Javadi slopes from Bandirevu to Madagarai in Salem district.	25,600	..	..	..	25,600	..		
		Damaraikadu in North Arcot district.	7,880	..	..	..	7,880	..		
	No. II. Tindivanam.	Vailamur Timmippendrug.	10,240	..	..	..	10,240	..		
		Kotenmalai near Padipallam block.	392	..	..	..	392	..		
		Vellimodu ..	2,560	..	..	..	2,560	..		
		Minamur Malai ..	3,840	..	..	..	3,840	..		
		Valeti	1,280	..	..	..	1,280	..		
		Pattuvoy	1,280	..	..	..	1,280	..		
		Kilsevur	1,280	..	..	..	1,280	..		
		Nadukkuppum to Bramhadesam.	3,840	..	..	..	3,840	..		
		Parikalpet ..	70	..	..	..	70	..		
	No. III. Villupuram.	Odaiyanattam and Kadaiyam.	6,400	..	..	..	6,400	..		
		Pulanjaimalai ..	450	..	..	..	450	..		
		Ariyalur forest ..	500	..	..	..	500	..		
		Pallipudupet ..	180	..	..	..	180	..		
		Panjamadevi ..	50	..	..	..	50	..		
		Puntotam ..	50	..	..	..	50	..		
		Sattipattu ..	50	..	..	..	50	..		
		Periyapuram ..	50	..	..	..	50	..		
		Ramapuram and Valicheripalaiyam.	9	..	..	9	..	..	..	Transferred to 59-C.
		Selambanadampettai.	640	..	..	..	640	..		
	No. IV. Cuddalore.	Badrakottai ..	1,281	..	..	..	1,281	..		
		Velankuppum ..	2,560	..	..	..	2,560	..		
		Kanjiruppu ..	1,000	..	..	1,000	..	..	..	Transferred to 59-C.
		Karunguli ..	600	..	..	..	600	..		
		Vengadampettai 15th mile stone.	250	..	..	..	250	..		
	No. IV. Chidambaram.	Pinnalur Walajapet tank block.	1,600	..	..	..	1,600	..		
	No. V. Tirukovilúr.	Virinjipuram and Kandachipuram.	2,560	..	..	..	2,560	..		
		Kuttadi	640	..	..	..	640	..		
		Timmachur to Gadilam river.	4,920	..	..	..	4,920	..		
		Chikkadu ..	4,920	..	..	..	4,920	..		
		Paiyur	50	..	..	..	50	..		

Area of other Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Arcot—*cont.*	No. V. Tirukovilúr—*cont.*	Kolatur	70	..	..	..	70	..		
		Mambakam ..	40	..	..	..	40	..		
		Seizampet ..	50	..	..	..	50	..		
		Muttalur	50	..	..	..	50	..		
		Kodiyur	50	..	..	..	50	..		
	No. VI. Kallakurchi.	Ponparappi forest ..	9,600	..	..	..	9,600	..		
		Kadambur ..	3,100	..	..	..	3,100	..		
		Lalapet forest including Chittal.	14,500	..	..	..	14,500	..		
		Tagarai Kachirajapalaiyam.	1,500	..	13,500	..	15,000	..	..	The area of Tagarai, Kachirajapalaiyam forest is 15,000 and not 1,500. Hence the addition to bring the figure correctly.
		Parigam	2,000	..	..	..	2,000	..		
		Kanai	3,000	..	..	..	3,000	..		
		Poigunnamalai ..	1,000	..	..	..	1,000	..		
		Palavalam ..	2,000	..	..	..	2,000	..		
		Rangappanur ..	1,000	..	.	..	1,000	..		
		Kammapuram ..	1,400	..	..	..	1,400	..		
	No. VII. Vriddhachalam.	Kodanur, south of 45th mile-stone.	1,000	..	..	..	1,000	..		
		Wuyakondravi and Kottayam.	2,000	..	..	..	2,000	..		
		Block near 25th mile-stone.	150	..	..	..	150	..		
		Pudur	1,920	..	..	..	1,920	..		
		Kolatur	1,280	..	..	..	1,280	..		
		Periyanesalur ..	1,280	..	..	..	1,280	..		
		Total ..	376,836	588·81	13,500	1,009	389,327	608·32		
Salem..	..	....	..	..	..	..	..	..		
Trichinopoly.	..	....	..	..	..	..	..	..		
Tanjore.	South Range.	Talaner	1,200	..	..	..	1,200	..		
		Kariyapatnam ..	188	..	..	..	188	..		
		Manakadu ..	170	..	..	..	170	..		
		Valligadangu ..	40	..	..	..	40	..		
		Vanduvancheri ..	150	..	..	..	150	..		
		Mudupet	300	..	..	..	300	..		
		Kovilpattu ..	137	..	..	..	137	..		
		Vanavanmahadevi .. / Vallupallam ..	380	..	..	..	380	..		
		Pushpavanam ..	500	..	..	..	500	..		
		Periyakudagai ..	366	..	..	..	366	..		
		Total ..	3,431	5·36	..	..	3,431	5·36		
North Coimbatore.	..	....	..	..	..	..	..	..		
South Coimbatore.	..	....	..	..	..	..	..	..		
Madura.	No. I. Periyakulam.	Detached hills and Karadus in the Cumbum valley.	786·50	..	..	..	786·50	..		
		Government portion of the Agamalais.	9,280	..	..	..	9,280	..		
		Andipatti hills ..	12,800	..	..	..	12,800	..		
	No. II. Kodaikánal.	Upper Palni plateau.	32,000	..	..	..	32,000	..		
		Portion of the slopes of the Sirumalais.	640	..	..	..	640	..		
	No. III. Dindigul.	Detached hills near Aiyalur.	12,800	..	..	*3,200	9,600	..		
		Detached hills near Kanavoipatti.	3,840	..	..	..	3,840	..		
	No. IV. Mélúr.	Karandamalais ..	*26,240	..	..	22,400 / 3,840	..	..	..	Transferred to 59-C.
		Nedumalais ..	3,840	..	..	..	3,840	..		
		Some of the detached hills near Nattam.	2,560	..	..	..	2,560	..		

* Punjantangi hills transferred to 59-C.

* The area to be reserved is estimated only 35 square miles *i.e.*, 22,400 acres transferred to 59-C. and 3,840 excluded as an over estimate in former years accounts.

Area of other Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura —*cont.*	No. V. Madura.	Perumalai ..	5,120	..	..	..	5,120	..		
		A portion of Manjamalais.	4,800	..	..	..	4,800	..		
		Total ..	114,706·50	179·22	..	29,440	85,266·50	133·23		
Tinnevelly.	Tenkarai ..	Paramankurchi ..	1,133	..	..	..	1,133	..		
		Arasur	6,831	..	..	..	6,831	..		
		Kottam	2,860	..	..	..	2,860	..		
		Total ..	10,824	16·91	..	..	10,824	16·91		
Malabar (Wynaad and Pálghat).	Wynaad ..	Manatana ..	214,400	..	..	..	214,400	..		
	Pálghat ..	Forest land near Doni.	150	..	..	..	150	..		
		Total ..	214,550	335·23	..	..	214,550	335·23		
Malabar (Nilambár).	..	....	..	..	..	..	..	..		
South Canara.	Mangalam ..	Tannir Bhavi ..	21	..	..	21	..	..	..	Transferred to 59-C.
	Kásaragód ..	Parapar	109	..	..	109	..	..	..	
		Total ..	130	0·20	..	130	..	..		
		Grand Total ..	720,477·50	1,125·73	13,500	30,579	703,398·50	1,099·06		

N.B.—As to Tannir Bhavi, the existing plantation has been merged in the area to be finally planted up and now under settlement with defined boundaries. The same applies to Parapa which is the portions planted with teak of the forests now included in a general boundary and proposed for reservation under the name of Parapar.

ANNUAL FORM No. 60.

Forest Department, Madras, Southern Circle.

Area of Plantations, 1886-87.

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
		Regular Plantations.							
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	Chingleput ..	Maiyur, Pilapur and Mamandur	397 3 400	20,484	* — 134	634	263 3 266	21,118	
		Walajabad	14·55	1,703	..	228	14·55	1,931	
		Hanumantaputeri	12				12		
		Malamaiyur	24	3,950	..	304	24	4,254	
		Venbakam	8				8		
		Nazaretpet	71·54	1,667	..	48	71·54	1,715	
		Covelong	2	274	— 2	— 274	..	..	Abandoned as the growth was bad.
		Total ..	532·09	28,078	— 136	1,214 — 274	396·09	29,018	
North Arcot ..	Vellore	Vellore taluk—							
		Ambur	5	515	— 5	— 515	..	..	Transferred to Form No. 61 topes
		Pólúr taluk—							
		Ammudi	25	4,311	..	100	25	4,411	
		Chandragiri taluk—							
		Gazulamandiyam	250	3,329	..	84	250	3,413	
	Palmanér ..	Palmanér taluk—							
		Palmaner	2	1,387	— 2	— 1,387	..	..	
		Nagamangalam	31	2,566	— 31	— 2,566	..	..	
		Piduguvaripalle	20	3,029	— 20	— 3,029	..	..	Do. do.
		Venkatagirikota	4	2,286	— 4	— 2,286	..	..	
		Baireddipalle	4	5,788	— 4	— 5,788	..	..	
		Gudiyátam taluk—							
		Tiruvallam	435	30,642	..	2,245	435	32,887	
		Virinjipuram	260	20,721	..	1,269	260	21,990	
		Chainur	129	5,878	— 129	— 5,878	..	..	Do. do.
		Ammundi	160	4,977	..	1,007	160	5,984	
		Tandrayangunta	2	639	— 2	— 639	..	..	Do. do.
	Head Quarter ..	Vannivedu	30	2,103	..	510	30	2,613	
		Wálajápet taluk—							
		Arkonam Sub-Magistrate's compound ..	5	130	— 5	— 130	..	..	
		Do. plantation	37	5,115	— 37	— 5,115	..	..	Do. do.
		Head Asst. Collector's Office compound ..	4	151	— 4	— 151	..	..	
		Tengal	250	84	— 250	— 84	..	..	Abandoned.
		Arcot taluk—							
		Kilminnal	150	10,530	..	— 1,108	150	11,638	
		Total ..	1,803	1,04,181	— 493	— 27,568 + 6,323	1,310	82,936	

* The result of actual survey.

Area of Plantations, 1886-87—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March. 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
South Arcot ..	No. I. Tiruvannámalai.	Chengam	8	1,257	..	3	8	1,260	
	No. II. Tindivanam.	Agaram	102	7,897	4	366	106	8,263	
	No. III. Cuddalore.	Achikadu	107	2,176	..	424	107	2,600	
		Talankadu	150	9,212	10	770	160	9,982	
		Fort St. David	37	4,557	..	250	37	4,807	
		Shonangkuppam	120	9,390	75	611	195	10,001	
		Donitorai and other salt topes around ..	88	2,707	..	366	88	3,073	
		Nochikadu	336·96	9,257	27·5	919	364·46	10,176	
		Periyakuppam	334·52	5,329	90	2,013	424·52	7,342	
		Amount of land rent paid for plantation within the Municipality of Cuddalore.	..	489	..	351	..	840	
	No. IV. Chidambaram.	Kallai plantation	71	2,292	3·5	383	74·50	2,675	
		Coleroon mouth plantation	49·14	1,508	..	231	49·14	1,739	
		Periyapet plantation	75·46	263	20	671	95·46	934	
		Mallatar bed plantation	27	30,101	..	..	27	30,101	
		Velur	..	2,563	..	..	..	2,563	
		Add pay of the manager and his gumastah in charge of Tirukoilur plantation.	..	916	..	..	..	916	
		Total ..	1506·08	89,914	230	7,358	1736·08	97,272	
Salem ..	..	....	..	..	..	..	..	..	
Trichinopoly ..	Kulitalai ..	Elamanur	117·10	12,290	..	312	117·10	12,602	
		Pettavaitalai	137	149	..	219	137	368	
		Kulitalai	77·18	10,187	..	383	77·18	10,570	
		Manatattai	44·86	4,186	..	390	44·86	4,576	
		Lalapet	213	5,995	..	531	213	6,526	
		Ambasamudram	319	464	..	60	319	524	
		Mahadanapuram	191	296	..	36	191	332	
		Sittalavoi	160·32	7,472	..	367	160·32	7,839	
		Sekkanam	122	3,008	*—3	52	119	3,060	
		Kattalai	74.35	7,708	..	325	74·35	8,033	
		Pudur	141·30	761	*—30	56	141	817	
		Maiyanur	50	43	..	165	50	208	
		Punganur	480	533	†—55	53	425	586	
	Udayárpálaiyam.	Kolamanikam	242	6,076	..	262	242	6,338	
		Aramanikurchi	91	2,452	..	57	91	2,509	
		Karaipakam	107	2,691	..	105	107	2,796	

*Result of Survey. † Result of actual measurement.

Area of Plantations, 1886-87—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
Trichinopoly—*cont.*	Udayárpálaiyam—*cont.*	Tiruvenganur	185	2,254	..	60	185	2,314	
		Varappakurchi	192	1,804	..	97	192	1,901	
		Sattambadi	105	2,323	..	..	105	2,323	
		Sripurandan	486	3,626	..	85	486	3,711	
		Valakurchi	130	451	..	84	130	535	
		Annagarampet	92	1,398	..	172 (*b*) 249	92	1,819	(*b*) Omitted in annual return for 1884-85, now added.
		Total ..	3,757·11	76,167	— 58·30	4,120	3,698·81	80,287	
Tanjore ..	North Range ..	Tranquebar No. I.	52	8,161	..	2,256	52	10,420	
		Do. No. II.	92				92		
		Vettangudi	453				453		
		Neidavasal	51				51		
		Kodiyampalaiyam	60				60		
	Southern Range ..	Kodambadi	26			3	26		
		Total ..	734	8,161	..	2,259	734	10,420	
North Coimbatore.	Kollegal ..	Bailur	97	30,078	..	728	97	30,806	Sandalwood plantation.
South Coimbatore.	Tunakadavu ..	No. I. Plantation	8·5	4,402	..	..	8·5	4,402	These are the plantations in No. I. Reserve on the Anaimalais.
		No. II. Do.	8				8		
		No. III. Do.	3				3		
		Total ..	19·5	4,402	..	..	19·5	4,402	
Madura ..	No. I. Periyakulam.	Vannatiparai teak plantation	4	3,342	..	162	4	3,504	
		Kodaikanal Eucalyptus plantation	8				8		
		Do. Acacia do.	5·50				5·50		
		Do. Parappar do.	11·50	495	..	425	11·50	920	
		Velamkombai teak do.	4·14	976	..	..	4·14	976	
		Pumbarai do.	3	512	..	..	3	512	
		Kodaikanal scattered do.	3	1,018	..	21	3	1,039	
		Total ..	39·14	7,734	..	608	39·14	8,342	
Tinnevelly ..	..	....	..	..	..	..	..	..	
Malabar (Wynaad and Pálghat).	Wynaad sub-division.	Kanot teak plantation	41·50	2,934	..	163	41·50	3,097	

Area of Plantations, 1886-87—*continued*.

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Malabar (Nilambúr.	Nilambúr ..	Amarampalaiyam reserve	408·77	..	..	..	408·77	..	
		Chatambarai do.	498·10	..	..	..	498 10	..	
		Nellikutta do.	120·23	..	..	..	120·23	..	
		Iravallikava	134·86	..	..	..	134·86	..	
		Aruvakad	111·44	..	..	..	111·44	..	
		Edakad	692·52	..	..	..	692.52	..	
		Ellenjeri	337·76	..	..	..	337·76	..	
		Romalur	21·33	..	..	..	21·33	..	
		Mulátmanna	71·56	..	..	..	71·56	..	
		Panangote	497·09	..	8	..	505·09	..	
		Valuvasheri	584·00	..	..	..	584·00	..	
		Mangalasheri	10·74	..	..	..	10·74	..	
		Ambalakandi	1·01	..	..	..	1·01	..	
		Chittarikal	8·35	..	..	..	8·35	..	
		Puttalat						..	
		Arimbrakutamala	21·75	..	..	..	21·75	..	
		Total ..	3519·51	2,12,725	8	5,960	3,527·51	2,18,685	
South Canara.	Mangalore ..	Ullal casuarina and Honne plantation ..	55·50	1,171	* ..	257	55·50	1,428	
	Kásarakód ..	Tannirbhavi casuarina plantation	21	1,456	1	473	22	1,929	
		Parappar teak plantation	109	16,536	..	61	109	16,597	
		Total ..	185·50	19,163	1	791	186·50	19,954	
		Grand Total ..	12;234·43	5,83,537	+ 239 — 687·30	+ 29,524 — 27,842	11,786·13	5,85,219	
			Cultural Operations.						
Chingleput ..			..	..	..	..	..	..	
North Arcot ..			..	..	..	1,141	..	1,141	
South Arcot ..		Ramapuram	70	..	..	..	70	..	
		Forests in Tindivanam and Villupuram ..	555	32	38	..	593	32	
		Forests in Cuddalore, Vriddháchalam and Chidambaram.	530	197	133	† 148	663	345	

* 5,632 square yards or nearly 1⅛ acres were felled and replanted. The area of the casuarina and Honne plantation has been combined as the whole has been treated as one block for settlement.
† Adjusted under A. VIII (*f*.)

Area of Plantations, 1886-87—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
South Arcot—*cont.*	..	Add charges incurred for carriage and maintenance, &c., of exotic plants planted in forests, but debited to A. VIII (*d*).	..	..	..	66	..	66	
		Total ..	1,155	229	171	214	1,326	443	
Salem ..	..		..	..	..	..	..	..	
Trichinopoly	Trichinopoly ..	Kaduvoi bank	..	..	..	..	..	..	
		Melur	M. 6	54	..	..	M. 6	54	
		Peruvalai bank	,, 2	133	..	..	,, 2	133	
		Coleroon left bank, trunk road to Alambadi ..	,, 22	4,214	..	656	,, 22	4,870	
	Udayárpálaiyam.	Nandiyar project	,, 4	2,267	..	..	,, 4	2,267	
		Coleroon left bank Sembiyagudi to Vaippar ..	,, 21	7,547	..	..	,, 21	7,547	
		Penneri main channel	,, 19	7,094	..	..	,, 19	7,094	
		Penneri branch channel	,, 16	2,199	..	..	,, 16	2,199	
		Lower anicut line..	,, 10	3,457	..	..	,, 10	3,457	
		Vadarar Padugais..	..	3	..	..	..	3	
		Total ..	M. 100	26,968	..	656	M 100	27,624	
Tanjore ..	Southern Range.	Nadar	18	..	..	4	18	4	
		Ichankottai	9	9	..	..	9	9	
		Kollangarai	20	..	..	..	20	..	
		Karungulam Melpadi	5	..	..	..	5	..	
		Marungulam	20	..	..	..	20	..	
		Nadukaveri	9	..	..	..	9	..	
		Nafarajapuram							
		Kattucheri	15	48	..	47	15	95	
		Kalliyappanallur	18	48	..	42	18	90	
		Mudikondanallur	25	48	..	40	25	88	
		Vettangudi	520	44	..	198	520	242	
		Nannillam	2	..	..	..	2	..	
		Odiyandevi	20	..	..	..	20	..	
		Vedaraniyam (date garden)	21	42	..	48	21	90	Notified under section 4 of the Madras Forest Act, *vide* G.O., No. 59 dated 22nd January 1887 except date garden of one area,
		Edangankottai (Melur)	7	..	..	..	7	..	
		13 topes in Puḍukōta taluk	135	..	..	..	135	..	
		Total ..	844	286+239 =525	..	379	844	618+286 =904	
North Coimbatore.	..	....	..	..	..	..	..	..	
South Coimbatore.	..	....	..	..	..	..	..	..	

Area of Plantations, 1886-87—*continued*.

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
Madura ..	.. ..	....	..	..	..	..	..	..	
Tinnevelly ..	Tenkási Sub-range.	Kudiraimalai teri	537	738	112	155	768	1,122	
					119	229			
		Kolamadakikadu	..	..	2½	35	2½	35	
		Total ..	537	738	233·50	*419	770·50	1,157	
Malabar (Wynaad and Pálghat).	..	Amount paid to Mr. Ferguson for rubber experiments.	..	..	..	784	..	1,364	
		Cost of cardamom cultivation in Peria range.	..	..	32	580	32		
		Total ..	..	..	32	1,364	32	1,364	
Malabar (Nilambúr).	..	....	..	..	..	..	..	..	
South Canara ..	.. ..	Experimental growth of giant bamboos ..	..	..	..	28	..	28	
		Grand Total ..	2,536 M. 100	28,460	436·50	4,201	2,972·50 M. 100	32,661	

* Adjusted under VIII (*f*).

ABSTRACT.

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Regular Plantations.						
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	..	....	532·09	28,078	— 136	+ 1,214 — 274	396·09	29,018	
North Arcot ..	..	....	1,803	1,04,181	— 493	— 27,568 + 6,323	1,310	82,936	
South Arcot ..	..	....	1,506·08	89,914	+ 230	+ 7,358	1,736·08	97,272	
Salem ..	..	....	..	..	..	..	..	..	
Trichinopoly ..	..	....	3,757·11	76,167	— 58·30	+ 4,120	3,698·81	80,287	
Tanjore ..	..	....	734	8,161	..	+ 2,259	734	10,420	
North Coimbatore	..	....	97	30,078	..	+ 728	97	30,806	
South do.	..	....	19·5	4,402	..	..	19·5	4,402	
Madura ..	..	....	39·14	7,734	..	+ 608	39·14	8,342	
Tinnevelly ..	..	....	..	..	..	..	..	..	
Malabar (Wynaad and Pálghat) ..	..	....	41·50	2,934	..	+ 163	41·50	3,097	
Malabar Nilambúr	..	....	3,519·51	2,12,725	+ 8	+ 5,960	3,527·51	2,18,685	
South Canara ..	..	....	185·50	19,163	+ 1	+ 791	186·50	19,954	
		Total ..	12,234·43	5,83,537	+ 239 — 687·30	+ 29,524 — 27,842	11,786·13	5,85,219	
			Cultural Operations.						
North Arcot ..	..	....	..	..	..	1,141	..	1,141	
South Arcot ..	..	....	1,155	229	171	214	1,326	443	
Trichinopoly ..	..	....	M. 100	26,968	..	656	M. 100	27,624	
Tanjore ..	..	....	844	525	..	379	844	904	
Tinnevelly ..	..	....	537	738	233·50	419	770·50	1,157	
Malabar (Wynaad and Pálghat) ..	..	....	..	..	32	1,364	32	1,364	
South Canara ..	..	....	..	..	..	28	..	28	
		Total ..	2,536 M. 100	28,460	436·50	4,201	2,972·50 M. 100	32,661	

Annual Form No. 61.

Forest Department, Madras, Southern Circle.

Annual list of topes.

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	Rs.	Rs.	
Chingleput ..	Chingleput	8	..	Casuarina, mango, margosa, cocoanut, iluppai and inga dulcis	80·77	212	7,490	
North Arcot ..	Vellore	54	..	Mango, palmyra, tamarind	503·93	375	890	
	Palmaner	133	..	Mango, palmyra, iluppai, tamarind, cocoanut and casuarina	192·98	348	21,923	
	Head-Quarter	412	..	Mango, tamarind, iluppai and palmyra	46	137	5,533	
	Chendragiri	42	..	Date, tamarind, mango, cocoanut and palmyra ..	..	292	292	
		641	..	Total ..	742·91	1,152	28,638	
South Arcot ..	No. I. Tiruvannamalai ..	34	..	Tamarind, iluppai, vagai, margosa, mango and katuvagai	118·25	..	..	
	No. II. Tindivanam ..	7	..	Do. do. do. ..	34·73	..	..	
	No. III. Villupuram ..	14	..	Tamarind, iluppai, vagai, margosa, mango, katuvagai, sandal and casuarina	77·00	..	..	
	No. IV. Cuddalore ..	2	..	Tamarind, iluppai, karuvelam, mango and nagai ..	12·00	..	..	
	No. IV. Chidambaram ..	4	..	Karuvelam, portia, tamarind, palmyra and iluppai.	16·51	..	..	
	No. V. Tirukoilur ..	17	..	Tamarind, margosa, iluppai, mango and nagai ..	32·41	..	..	
	No. VI. Kallakurchi ..	9	..	Tamarind, iluppai, margosa, karuvelam and velvelam	66·37	..	..	
	No. VII. Vriddhachalam ..	7	..	Tamarind, palmyra, mango, banian, odiam, konnai.	36·24	..	..	
		94	..	Total ..	393·51	..	8,712	
Salem ..	Salem	64	..	Mango, tamarind, margosa, nagai, iluppai, cocoanut and vagai	633·75	478	58,428	
	Atur	17	..	Cocoanut, tamarind, iluppai and margosa ..	187·10	399	9,314	
	Namakal	16	..	Cocoanut, tamarind, iluppai, margosa, vagai and mango	58·48	320	7,004	
	Tiruchengod	14	..	Mango, cocoanut, tamarind, margosa and iluppai ..	106·91	181	4,498	
	Utankarai	34	..	Tamarind, mango, nim and palmyra	301·34	202	31,414	
	Tirupatur	24	..	Mango, tamarind, iluppai, vagai and palmyra ..	221·97	286	8,654	
	Krishnagiri	21	..	Iluppai, mango, tamarind, margosa, palmyra, karuvelam and nagai	358·04	954	29,093	
	Dharmapuri	31	..	Tamarind, mango, iluppai and sandalwood ..	492·46	572	17,023	In 1886-87, the return shows 47 new topes, area 385·47, also 12 topes which were entered in 1885-86 are omitted in 1886-87, their area being 73·54 acres. The area of other topes entered in this year is increased by 234 acres in certain cases.
	Hosur	42	..	Casuarina, iluppai, punga, naga, mango and sandalwood	750·15	648	28,699	
		263	..	Total ..	3,110·20	4,040	194,127	

Annual list of topes—*continued.*

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Trichinopoly ..	Trichinopoly	6	..	Mango and iluppai	31·24	57	1,311	
	Kulitalai	6	..	Tamarind and sissu	14·94	..	168	
	Musiri	2	..	Mango	4·25	..	..	
	Perambalur	1	..	Do.	9·12	..	292	
	Udayarpalaiyam	1	..	Do.	2	..	..	
		16	..	Total ..	61·55	57	1,771	
Tanjore ..	Tanjore	16	..	Cocoanut and mango	153	..	..	
North Coimbatore.	Satyamangalam	3	..	Palmyra	20·79	..	2,328	
	Kollegal	4	..	Tamarind and karuvelam	303·07	..	576	
	Bhavani	26	..	Palmyra, mango and karuvelam	372·34	..	1,799	
	Erode	52	..	Palmyra, velvelam, cocoanut and margosa ..	614·11	77	12,975	
	Dharapuram	76	..	Palmyra, tamarind, velvelam and karuvelam ..	12,483·19	14	14	
	Karur	22	..	Palmyra, cocoanut and tamarind	246·88	..	10,882	
		183	..	Total ..	*14,040·38	91	28,574	
South Coimbatore.	Palladam	6	..	Velvelam, sandal, teak, palmyra and karuvelam ..	100·79	..	5,197	
	Coimbatore	2	..	Cocoanut trees	12·21	159	699	
		8	..	Total ..	113·00	159	5,896	
Madura ..	No. I. Periyakulam ..	9	..	Tamarind, margosa, iluppai, vagai, naval, bamboo, sandalwood and mahogany	20·5	120	5,597	One experimental garden added during the year.
	No. II. Kodaikanal ..	3	..	Tamarind, iluppai, margosa, vagai, marudai and mahogany	9·30	67	1,183	Do. do.
	No. III. Dindigul	8	..	Tamarind, margosa, iluppai, vagai and velvelam ..	47·51	..	3,740	
	No. IV. Melur	3	..	Tamarind, margosa, vagai, iluppai and mango ..	23·5	215	849	Do. do.
				Add cost of temporary establishment	..	1,050	1,050	
		23	..	Total ..	100·81	1,452	12,419	
Tinnevelly ..	Tinnevelly	4	..	Mango, tamarind, gooseberry and palmyra ..	34·78	108	430	
	Tenkarai	1	..	Cocoanut, mango, jack and orange	·98	..	185	
	Otapidaram	2	..	Bamboo, casuarina and iluppai	11·44	..	328	
	Satur	2	..	Bamboo and tamarind	2·99	55	454	

* 14,021·71 in the previous report was an arithmetical error.

Annual list of topes—*continued.*

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Tinnevelly—*cont.*	Sankaranainarkovil ..	5	..	Mango, iluppai, bamboo and jack	15·21 — 1·28	..	731 — 75	
	Tenkasi	8	..	Margosa, vagai, marudai and casuarina	14·45	..	503	
	Ambasamudram	3	..	Margosa, marudai, vagai, iluppai and tamarind ..	9	24	504	
	Nanguneri	4	..	Mango, bamboo, banian and margosa	19·43	187	868	
		29	..	Total ..	107·00	374	3,928	
				Deduct amount not adjusted under VIII *(d)* during the year	..	50	50	
					..	324	3,878	
Malabar (Wynaad and Pálghat).	Wynaad sub-division ..	1	..	Eucalyptus, cæro rubber, chincona, mahogany, sappan and ficus elastica, &c.	2·50	425	1,799	
	Pálghat	2	..	Mango, jack trees and pongamia glabra	3	..	..	
				Add amount transferred by the Examiner from VIII *(f)* to VIII *(d)*.	..	9	9	
		3	..	Total ..	5·50	434	1,808	
Malabar (Nilambúr).	....	..	..	....	..	..	..	
South Canara ..	....	..	..	....	..	..	..	
		1,284	..	Grand Total ..	18,908·63	7,921	293,313	

Abstract.

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost.		Remarks.
						During year.	To end of year.	
					ACRES.	RS.	RS.	
Chingleput ..	....	8	..	....	80·77	212	7,490	
North Arcot ..	....	641	..	....	742·91	1,152	28,638	
South Arcot ..	....	94	..	....	393·51	..	8,712	
Salem	....	263	..	....	3,110·20	4,040	1,94,127	
Trichinopoly ..	....	16	..	....	61·55	57	1,771	
Tanjore	....	16	..	....	153	..	..	
North Coimbatore.	....	183	..	....	14,040·38	91	28,574	
South do. ..	....	8	..	....	113·00	159	5,896	
Madura	....	23	..	....	100·81	1,452	12,419	
Tinnevelly ..	....	29	..	....	107·00	324	3,878	
Malabar (Wynaad and Pálghat).	....	3	..	....	5·50	434	1,808	
Malabar (Nilambúr).	....	..	..	....	..	..	..	
South Canara ..	....	..	..	....	..	..	..	
		1,284	..	Grand Total ..	18,908·63	7,921	293,313	

Annual Form No. 62.

Forest Department, Madras, Southern Circle.

Area of forest tracts protected from fire during 1886-87.

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	Tiruvallur Range.									
Chingleput ..	Kambakam	7,350	1,497 0 0	7,350	..	7,350	386 0 0	1,883 0 0	1883-84	
	Total of the District ..	7,350	1,497 0 0	7,350	..	7,350	386 0 0	1,883 0 0		
	Vellore Range.									
North Arcot ..	Carnaticghur Reserve ..	7,069	1,050 0 0	7,069	..	7,069	192 0 0	1,242 0 0	1881	
	Tellai do. ..	15,119	1,098 0 0	15,121	49	15,072	174 0 0	1,272 0 0	..	
	Ambur fuel do. ..	3,840	753 0 0	3,840	35	3,805	168 0 0	921 0 0	1879	
	Palamadi do. ..	6,400	311 0 0	6,400	80	6,320	80 0 0	391 0 0	1880	
	Chandragiri Range.									
	Napier Reserve	8,772	872 0 0	8,772	306	8,466	165 0 0	1,037 0 0	1880	
	Mamandur Reserve ..	1,776	1,072 0 0	1,776	592	1,184	101 0 0	1,173 0 0	1874	
	Chamala do.	9,600	141 0 0	9,600	..	9,600	64 0 0	205 0 0	1880	
	Panapak do.	6,400	88 0 0	6,400	..	6,400	69 0 0	157 0 0	1880	
	Pudipatlabail do.	2,560	104 0 0	2,560	..	2,560	54 0 0	158 0 0	1880	
	Paradarami do.	15,242	134 0 0	15,242	320	14,922	37 0 0	171 0 0	1880	
	Airala do.	6,400	149 0 0	6,400	..	6,400	30 0 0	179 0 0	1880	
	Chittur do.	360	135 0 0	360	..	360	20 0 0	155 0 0	1882	
	Santapet do.	2,276	26 0 0	2,277	..	2,277	15 0 0	41 0 0	1882	
	Bommasamudram Reserve ..	1,426	42 0 0	1,426	..	1,426	37 0 0	79 0 0	1884	
	Chilapalle Reserve	1,266	25 0 0	1,296	..	1,296	16 0 0	41 0 0	1884	
	Kinatipalle do. ..	1,417	12 0 0	1,417	..	1,417	17 0 0	29 0 0	1884	
	Palmaner Range.									
	Mortana Reserve	16,000	404 0 0	16,000	..	16,000	112 0 0	516 0 0	1884	
	Musalimadugu Reserve ..	9,600	84 0 0	9,600	..	9,600	48 0 0	132 0 0	1884	
	Peddur do. ..	9,597	283 0 0	9,600	..	9,600	140 0 0	423 0 0	1880	
	Basuvareddipalle Reserve ..	10,240	72 0 0	10,240	..	10,240	48 0 0	120 0 0	1884	
	Ambur Drug do. ..	5,760	..	5,760	..	5,760	15 0 0	15 0 0	1880	
	Naikaneri do. ..	6,400	260 0 0	6,400	..	6,400	122 0 0	382 0 0	1884	
	Head-Quarter Range.									
	Punganur Reserve	3,743	806 0 0	3,743	401	3,342	193 0 0	999 0 0	1884	

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
	Vellore Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
North Arcot—*cont.*	Puttur Reserve ..	12,800	375 0 0	12,800	..	12,800	..	375 0 0	1879	
	Patrakad do. ..	19,200	751 0 0	19,200	..	19,200	..	751 0 0	1881	
	Virappanur do. ..	..	..	64,000	..	64,000	..	..	1886	
	Kapalur do. ..	1,267	..	1,267	..	1,267	..	..	1884	
	Kelur do. ..	3,537	..	3,537	..	3,537	..	..	1884	
	Alliyamangalam do. ..	10,062	..	10,062	..	10,062	..	..	1884	
	Ammerdi plantation	25	..	25	..	25	..	..	1884	
	Ambur do.	5	..	5	..	5	..	..	1884	
	Chandragiri Range.									
	Penamur Reserve	6,400	..	6,400	..	6,400	..	..	1880	
	Gazulamandiyam Reserve ..	250	..	250	..	250	..	..	1884	
	Palmaner Range.									
	Vikramasi Reserve	161	17 0 0	161	..	161	..	17 0 0	1882	
	Tiruvallam plantation ..	435	..	435	..	435	..	..	1884	
	Virinjipuram do. ..	260	..	260	..	260	..	..	1884	
	Ammundi do. ..	160	..	160	..	160	..	..	1884	
	Palmaner do. ..	2	..	2	..	2	..	..	1884	
	Nagamangalam do. ..	31	..	31	..	31	..	..	1884	
	Piduguvaripalle do. ..	20	..	20	..	20	..	..	1884	
	Venkatagirikota do. ..	4	..	4	..	4	..	..	1884	
	Baireddipalle do. ..	4	..	4	..	4	..	..	1884	
	Chainur do. ..	130	..	130	..	130	..	..	1884	
	Tandrayagunta do. ..	2	..	2	..	2	..	..	1884	
	Head-Quarter Range.									
	Kilminnel plantation ..	112	..	150	..	150	..	..	1884	
	Satur Reserve do. ..	1,048	..	1,048	..	1,048	..	..	1884	
	Sennaleri do. ..	356	..	1,675	..	1,675	..	..	1884	
	Enadavadi do. ..	1,566	..	1,567	..	1,567	..	..	1884	
	Tandalappentangal do. ..	1,154	..	1,112	..	1,112	..	..	1884	
	Sholavaram do. ..	1,281	..	1,232	..	1,232	..	..	1884	
	Pennar do. ..	939	..	939	..	939	..	..	1880	
	Venkundram do. ..	1,288	..	1,288	..	1,288	..	..	1880	
	Badur do. ..	873	..	873	..	873	..	..	1880	
	Nambedu do. ..	720	..	720	..	720	..	..	1880	
	Kodiyalam do. ..	125	..	125	..	125	..	..	1880	
	Nedungal do. ..	3,645	..	3,645	..	3,645	..	..	1883	
	Vishamangalam do. ..	1,148	..	1,148	..	1,148	..	..	1883	
	Nedungunam do. ..	1,797	..	1,797	..	1,797	..	..	1883	
	Bramhakateri do. ..	635	..	635	..	635	..	..	1883	
	Gudalur do. ..	N 535	..	535	..	535	..	..	1880	

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
North Arcot—*cont.*	Kolatúr plantation	1,779	..	1,779	..	1,779	..	..	1884	
	Ammanur do.	203	..	203	2	201	..	..	1880	
	Uriur or Anantapuram plantation.	540	..	540	..	540	..	..	1880	
	Banavaram plantation ..	1,085	47 0 0	1,051	..	1,051	..	47 0 0	1880	
	Ammur do. ..	6,020	..	6,020	700	5,320	..	..	1884	
	Minnel do. ..	1,378	..	1,378	..	1,378	..	..	1884	
	Vannivedu do. ..	30	..	30	..	30	..	..	1884	
	Arkónam do. ..	37	..	37	..	37	..	..	1884	
	Arkónam Sub-Magistrate's compound.	5	..	5	..	5	..	..	1884	
	Arkónam Head Assistant Collector's compound.	..	..	4	..	4	..	..	1884	
	Tengal	250	..	250	..	250	..	..	1884	
	Total of the District ..	234,567	9,111 0 0	299,840	2,485	297,355	1,917 0 0	11,028 0 0		
South Arcot :	*Tiruvannámalai Range.*									
	Annámalai reserved forest ..	1,760		1,760	150	1,610			From dry season, 1878, inclusive.	
	Do. other forests ..	600		..	..	..			do.	
	Kavutumalai	6,000		6,000	45	5,955			1878	
	Tenmalai	19,800		20,000	13,000	7,000			1877	
	Mudinai	4,000		4,000	..	4,000			1883	
	Damarakadu	7,880		8,000	300	7,700			1884	
	Chinnasamudram	6,300		6,000	..	6,000			1878	
	Javadi slopes above Arasangani and over the Chinnasamudram.	2,000		..	..	..			1885-86	
	Pelamaratur	8,000	1,966	..	..	..	1,224 0 0	3,190 0 0	..	
	Nallapattu	7,000		..	..	..			..	
	Valasalmalai	7,000		7,000	50	6,950			1883-84	
	Perungkolatúr Swami Malai including 2,000 acres in Kallakurchi taluk.	11,000		9,000	..	9,000			1883-84	
	Kallakurchi Range.									
	Tagarai, Latchmipuram, Kalrayan slopes unreserved.	14,970		15,000	700	14,300			1883-84	
	Kanai Moyamalai	2,000		..	..	..			1885-86	
	Pangam Kandatimalai ..	1,000		1,000	..	1,000			1885-86	

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
South Arcot—*cont.*	Pevalam Peramatalmalai ..	1,000		..	..	..		..	..	
	Rangapanur	2,000		..	..	..		..	..	
	Total of the District ..	102,310	1,966 0 0	77,760	14,245	63,515	1,224 0 0	3,190 0 0		
	Salem Range.									
	Vadagampatti blocks of Kanavaipudur reserved land ..	1,976	1,082 0 0	1,976	..	1,976	311 0 0	1,393 0 0	1881	
	Morur block of Lokur reserved land.	799	506 0 0	799	..	799	198 0 0	704 0 0	1881	
	Mallapuram block of Mallapuram reserved land.	587	510 0 0	587	..	587	214 0 0	724 0 0	1881	
	Ammanur block of Lokur reserved land.	252	178 0 0	252	..	252	46 0 0	224 0 0	1882	
	Pelapallikombai block of Pellapalli reserved land.	981	356 0 0	981	..	981	71 0 0	427 0 0	1882	
	Kariyappakombai block of Jarimalai and Kanavaiputur reserved land.	531	260 0 0	531	..	531	40 0 0	300 0 0	1882	
	Kanjiri block of Kanjiri reserved land.	1,929	217 0 0	1,929	..	1,929	139 0 0	356 0 0	1883	
Salem ..	Pannikaradu block of Kanjiri and Pannikaradu new reserved lands.	2,645	950 0 0	2,645	..	2,645	133 0 0	1,083 0 0	1883	
	Karuvattuparai block of Karuvattuparai reserved land.	837	561 0 0	837	...	837	85 0 0	646 0 0	1884	
	Total ..	10,537	4,620 0 0	10,537	..	10,537	1,237 0 0	5,857 0 0		
	Uttankarai Range.									
	Uttankarai block of Uttankarai reserved land.	469	307 0 0	469	..	469	66 0 0	373 0 0	1881	
	Singarapet block of Singarapet reserved land.	2,623	1,207 0 0	2,624	100	2,524	145 0 0	1,352 0 0	1881	
	Harur block of Harur reserved land.	1,174	556 0 0	1,176	..	1,176	105 0 0	661 0 0	1882	
	Total ..	4,266	2,070 0 0	4,269	100	4,169	316 0 0	2,386 0 0		

Salem Range.

Map area .. .. 10,537 acres.
Outline .. .. 58 miles.
Interior lines .. 13½ ,,
New lines .. .. 2¼ ,,

Fire traced.

First .. .. 2¾ miles.
Renewed .. .. 71¼ ,,
Total .. 73½

Cost per mile .. Rs. 16 13 3

Uttankarai Range.

Map area .. .. 4,269 acres.
Outline .. .. 19½ miles.
Interior lines .. 8¼ ,,

Fire traced.

First .. .. 1¼ miles.
Renewed .. .. 25½ ,,
Total .. 26¾ ,,

Cost per mile .. .. Rs. 11 13 3
,, acre .. .. Rs. 0 1 2¾

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
	Tirupatúr Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		*Tirupatúr Range.*
	Kolatúr block of Nagalutu reserved land.	1,213	86 0 0	1,213	..	1,213	42 0 0	128 0 0	1885	Map area .. .. 1,213 acres. Outline .. .. 9 miles. Interior lines .. .. — *Fire traced.* First .. .. .. Renewed .. .. 5½ miles. Total .. 5½ ,,
	Total ..	1,213	86 0 0	1,213	..	1,213	42 0 0	128 0 0		Cost per mile .. Rs. 7 11 5 Cost per acre .. ,, 0 0 6½
	Krishnagiri Range.									*Krishnagiri Range.*
	Begur block of Begur reserved land.	220	151 0 0	220	73	147	107 0 0	258 0 0	1883	Map area .. .. 1,788 acres. Outline .. .. 13 miles.
	Pudur block of Kotur reserved land.	1,069	519 0 0	1,069	..	1,069	116 0 0	635 0 0	1883	Interior lines .. .. 3½ ,,
Salem—*cont.* ..	Togarapalli block of Togarapalli reserved land.	499	97 0 0	499	..	499	..	97 0 0	1884	*Fire traced.* First .. .. .. Renewed .. .. 10 miles. Total .. 10 ,,
	Total ..	1,738	767 0 0	1,738	73	1,715	223 0 0	990 0 0		Cost per mile .. Rs. 22 4 6 ,, acre .. ,, 0 2 1
	Hosúr Range.									*Hosúr Range.*
	Meilgiri block of Aiyur and Marandahalli reserved lands.	5,461	..	5,461	30	5,431	240 0 0	240 0 0	1885	Map area .. .. 13,172 acres. Outline .. .. 42½ miles.
	Kanavikotapalli block of Gulhatti new and Tolavabetta reserved land.	742	34 0 0	742	..	742	52 0 0	86 0 0	1885	Interior lines .. .. — *Fire traced.*
	Gulhatti block of Gulhatti new reserved land.	3,248	..	3,248	..	3,248	171 0 0	171 0 0	1885	First .. .. 38½ miles. Renewed .. .. 4 ,,
	Munchi block of Munchi new reserved land.	3,305	..	3,305	..	3,305	220 0 0	220 0 0	1885	Total .. 42½ ,,
	Kanavanagasundrum block of Tolavabetta reserved land.	416	28 0 0	416	100	316	60 0 0	88 0 0	1885	Cost per mile .. Rs. 17 8 9 ,, acre .. ,, 0 0 11
	Total ..	13,172	62 0 0	13,172	130	13,042	743 0 0	805 0 0		*Salem District.* Map area .. .. 30,979 acres. Outline .. .. 142 miles. Interior lines .. .. 25¼ ,, New lines .. .. 2¼ ,, *Fire traced.* First .. .. 42 miles. Renewed .. .. 116¼ ,, Total .. 158¼ ,,
	Total of the District ..	30,976	7,605 0 0	30,979	303	30,676	2,561 0 0	10,166 0 0		Cost per mile traced .. Rs. 16 2 11 ,, acre of block .. ,, 0 1 4 Proportion of failure to whole area = 1 per cent.

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
	Musiri Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
Trichinopoly ..	Sengatupatti	3,000	32 0 0	3,000	(*a*) 60	* 2,940	12 0 0	44 0 0	1885-86	(*a*) The fire did not do much material damage, as it was principally confined to grass land.
	Melúr	3,000	38 0 0	3,000	..	* 3,000	11 0 0	49 0 0	..	
	Perambalúr Range.									
	Manalodai	4,000	37 0 0	4,000	..	* 4,000	3 0 0	40 0 0	..	
	Solamatti	7,000	677 0 0	7,000	..	* 7,000	(*b*) 163 0 0	840 0 0	..	(*b*) 24¼ miles of fire lines were cut.
	Total of the District ..	17,000	784 0 0	17,000	60	16,940	189 0 0	973 0 0		
Tanjore ..	.....	*Nil.*								
	Special.									
	Kollegál Range.									
Coimbatore, (North).	I. Jadatalahalla	361	96 0 0	361	..	361	91 0 0	187 0 0	1884-85	
	II. Udayárpálaiyam ..	297	45 0 0	297	..	297	82 0 0	127 0 0	1884-85	
	III. Bailur	1,186	218 0 0	1,186	..	1,186	124 0 0	342 0 0	1879-80	
	General.									
	Satyamangalam Range.									
	IV. Gairmalla	520	43 0 0	520	..	520	..	43 0 0	1885-86	
	Total of the District ..	2,364	402 0 0	2,364	..	2,364	297 0 0	699 0 0		
	Tunakadavu Range.									
Coimbatore, (South).	I. Anaimalai	..	1,028 0 0	2,630	350	2,280	209 0 0	1,237 0 0	1882-83	
	II. Punachi	3,140	678 0 0	3,140	..	3,140	141 0 0	819 0 0	1882-83	
	Udamalpet-Pálár	485	188 0 0	485	..	485	42 0 0	230 0 0	1883-84	
	Bolampatti blocks I and II ..	6,400	412 0 0	6,400	..	6,400	283 0 0	695 0 0	1884-85	
	Sholakarai-Sholakarai ..	1,292	935 0 0	1,650	10	1,640	115 0 0	1,050 0 0	1883-84	
	Total of the District ..	11,317	3,241 0 0	14,305	360	13,945	790 0 0	4,031 0 0		
	Special.									
	Reserved Forests.									
	No. I or Periyakulam Range.									
Madura ..	Vannattiparai	27,145	405 0 0	27,481	645	26,836	387 0 0	792 0 0	1884-85	Includes teak plantation.
	Suranganar	3,616	12 0 0	3,616	10	3,606	..	12 0 0	1885-86	
	Melagudalur	980	16 0 0	1,280	..	1,280	..	16 0 0	1885-86	

* Approximate.

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
	No. I or Periyakulam Range—cont.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
Madura—*cont.*	Pandaratorai	..	..	300	..	300	100 0 0	100 0 0	1886-87	
	Machakal	..	..	2,560	720	1,840	156 0 0	156 0 0	1886-87	
	Pambar	4,709	1,510 0 0	4,755	3,003	1,752	734 0 0	2,244 0 0	1883-84	
	Sengalvarai	5,210	43 0 0	5,209	..	5,209	115 0 0	158 0 0	1885-86	
	No. II or Kodaikánal Range.									
	Pumbarai and Vilpati valley Velamkombai plantation.	13,561	172 0 0	13,587	320	13,267	571 0 0	743 0 0	1885-86	
	Kudriaiar and Kukal reserve..	..	..	19,704	640	19,064	81 0 0	81 0 0	1886-87	
	No. III or Dindigul Range.									
	Sirumalai	13,405	578 0 0	25,529	20	25,509	329 0 0	907 0 0	1885-86	
	Mudimalai	6,086	127 0 0	6,086	..	6,086	167 0 0	294 0 0	1884-85	
	No. V or Madura Range.									
	Alagarmalai	13,031	4,862 0 0	13,036	250	12,786	698 0 0	5,560 0 0	1882-83	
	RESERVED LANDS.									
	No. I or Periyakulam Range.									
	Murugamalai	3,227	338 0 0	3,227	10	3,217	202 0 0	540 0 0	1884-85	
	No. II or Kodaikánal Range.									
	Arrankanal * and Pannakad ..	5,120	283 0 0	2,560	150	2,410	163 0 0	446 0 0	1884-85	
	Perumalmalai	7,700	674 0 0	7,700	200	7,500	487 0 0	1,161 0 0	1883-84	
	Kallar	9,600	42 0 0	9,600	200	9,400	277 0 0	319 0 0	1885-86	
	No. V or Madura Range.									
	Vaggatumalai	4,200	258 0 0	4,200	..	4,200	176 0 0	434 0 0	1884-85	
	Kachakattai	1,694	..	1,694	..	1,694	30 0 0	30 0 0	1884-85	
	GENERAL.									
	RESERVED FORESTS.									
	No. II or Kodaikánal Range.									
	Kodaikánal scattered plantation.	3	6 0 0	3	..	3	6 0 0	12 0 0	1883-84	
	Do. Acacia	5	4 0 0	5	..	5	3 0 0	7 0 0	1883-84	
	Pumbarai	6	3 0 0	6	..	6	..	3 0 0	1883-84	
	Parapar	42	11 0 0	42	..	42	11 0 0	22 0 0	1884-85	
	Gundanshola	..	..	54	..	54	14 0 0	14 0 0	1886-87	

* This is the same as Pannakad galnut tracts. The extent is shown twice over at the commencement of the year. Therefore 2,560 acres have been omitted.

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
	OTHER FORESTS.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	No. I or Periyakulam Range.									
Madura—*cont.*...	Ambruvu	..	..	3,840	..	3,840	17 0 0	17 0 0	1886-87	
	Total of the District ..	119,340	9,344 0 0	156,074	6,168	149,906	4,724 0 0	14,068 0 0		
	SOUTHERN RANGE.									
	Ambásamudram.									
	Block between Sarveyar and Kariyar rivers, Pápanásam Hills.	10,477	1,473 0 0	10,477	..	10,477	710 0 0	2,183 0 0	1884-85	
	Block of forests between Sarveyar, Kinampannai, Teri and Muttirimottai, Pápanásam Hills.	1,200	158 0 0	1,200	20	1,180	112 0 0	270 0 0	1885-86	
	Alwarkurichi	..	..	7,690	..	7,690	387 0 0	387 0 0	1886-87	
	Nángunéri.									
	Block of forests in Kalakod ..	8,145	538 0 0	8,320	..	8,320	373 0 0	911 0 0	1885-86	
	New block	..	..	12,160	850	11,310	496 0 0	496 0 0	1886-87	
Tinnevelly	NORTHERN RANGE.									
	Tenkási.									
	Boundary line between Chokkampatti and Government forests.	3 miles.	54 0 0	3 miles.	..	3 miles.	91 0 0	145 0 0	1885-86	
	Boundary line between Vairavankulam and Government forests.	10 ,,	180 0 0	10 ,,	..	10 ,,	130 0 0	310 0 0	1885-86	
	Sankaranainárkoil.									
	Boundary line between Tirumalai Naicken Pudukudi and Government forests.	3 ,,	9 0 0	3 ,,	..	3 ,,	21 0 0	30 0 0	1885-86	
	Total of the District ..	19,822 + 16 miles.	2,412 0 0	39,847 + 16 miles.	870	38,977 + 16 miles.	2,320 0 0	4,732 0 0		
	Wynaad.									
Malabar (Wynaad and Pálghat.)	Begur	9,926	1,438 0 0	15,366	4	15,362	709 0 0	2,147 0 0	1882-83	
	Pálghat.									
	Wálayár	3,017	3,567 0 0	3,017	..	3,017	422 0 0	3,989 0 0	1873-74	
	Chenat Nair	2,520	273 0 0	12,252	300	11,952	152 0 0	425 0 0	1884-85	
	Total of the District ..	15,463	5,278 0 0	30,635	304	30,331	1,283 0 0	6,561 0 0		

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.				
	SPECIAL.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.			
Malabar (Nilambúr.)	Karimpoya reserve	3,955	192 0 0	3,955	..	3,955	116 0 0	308 0 0		1884-85	
	Amarampulam ,, ..	409	151 0 0	468	..	468	60 0 0	211 0 0		1860-61	
	Chatamborai ,, ..	499	64 0 0	700	..	700	59 0 0	123 0 0		1872-73	
	Nellikutta ,, ..	1,824	288 0 0	1,824	..	1,824	124 0 0	412 0 0		1883-84	
	Teak plantations	2,493	926 0 0	2,500	..	2,500	373 0 0	1,299 0 0		1842-43	
	Total of the District ..	9,180	1,621 0 0	9,447	..	9,447	732 0 0	2,353 0 0			
	SPECIAL.										
	Udipi Range.										
	Chinkramale	..	88 0 0	2,560	33	2,527	146 0 0	234 0 0		1885-86 and 1886-87	
	Manaji	..	..	1,280	50	1,230	98 0 0	98 0 0		1886-87	
	Tenkahola	..	..	1,920	..	1,920	47 0 0	47 0 0		1886-87	
	Total ..	..	88 0 0	5,760	83	5,677	291 0 0	379 0 0			
	GENERAL.										
	Coondapoor Range.										
South Canara.	Sabladi	187	6 0 0	208	..	208	39 0 0	45 0 0		[1]1884-85	
	Sarpanamanekadu	..	..	30	..	30	16 0 0	16 0 0		1886-87	
	Udipi Range.										
	Pillarkan	318	22 0 0	320	2	318	11 0 0	33 0 0		1883-84	
	Mangalore Range.										
	Chembugudde	75	9 0 0	75	..	75	5 0 0	14 0 0		1884-85	
	Kuttiyar	25	6 0 0	25	..	25	3 0 0	9 0 0		1884-85	
	Poitagi and Kayarpalla ..	93	5 0 0	96	..	96	10 0 0	15 0 0		1885-86	
	Kásaragód Range.										
	Parappa	115	107 0 0	115	..	115	13 0 0	120 0 0		1882-83	
	Total ..	813	155 0 0	869	2	867	97 0 0	252 0 0			
	Total of the District ..	813	243 0 0	6,629	85	6,544	388 0 0	631 0 0			
	Grand Total ..	570,502 + 16 miles.	43,504 0 0	692,230 + 16 miles.	24,880	667,350 + 16 miles.	16,811 0 0	60,315 0 0			

Charged in previous years	28,653	0 0
Do. 1885-86 ..	14,851	0 0
Do. 1886-87 ..	16,811	0 0
Total ..	60,315	0 0

Abstract.

District.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.
	Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.	
	Acres.	Rs.	Acres.	Acres.	Acres.	Rs.	Rs.
Chingleput	7,350	1,497	7,350	..	7,350	386	1,883
North Arcot	234,567	9,111	299,840	2,485	297,355	1,917	11,028
South Arcot	102,310	1,966	77,760	14,245	63,515	1,224	3,190
Salem	30,976	7,605	30,979	303	30,676	2,561	10,166
Trichinopoly	17,000	784	17,000	60	16,940	189	973
North Coimbatore	2,364	402	2,364	..	2,364	297	699
South Coimbatore	11,317	3,241	14,305	360	13,945	790	4,031
Madura	119,340	9,344	156,074	6,168	149,906	4,724	14,068
Tinnevelly	19,822	2,412	39,847	870	38,977	2,320	4,732
Malabar (Wynaad and Pálghat)	15,463	5,278	30,635	304	30,331	1,283	6,561
Malabar (Nilambúr)	9,180	1,621	9,447	..	9,447	732	2,353
South Canara	813	243	6,629	85	6,544	388	631
Total ..	570,502	43,504	692,230	24,880	667,350	16,811	60,315

ANNUAL FORM No. 63.

Forest Department, Madras, Southern Circle.

Prosecutions for Breaches of Forest Rules during 1886-87.

District.	Cases pending from 1885-86.	NEW CASES OF THE YEAR.					Total cases.	DISPOSED OF DURING THE YEAR.								Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited	Other offences	Total new cases of the year.		Convictions.		Acquittals.		Compounded.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Chingleput—under the Indian Penal Code	..	..	9	1	..	10	10	9	67	1	15	..	..	10	82	..
North Arcot	*3	8	88	40	5	141	144	76	176	59	195	4	13	139	384	5
South Arcot	3	..	32	7	14	53	56	21	63	10	45	5	6	36	114	20
Salem	47	5	205	14	20	244	291	42	119	31	107	{ 139 † 24 }	431	236	657	55
Trichinopoly	3	3	56	1	149	209	212	39	76	20	70	145	145	204	291	8
Tanjore	1	..	125	17	...	142	143	82	91	14	14	22	..	118	105	25
North Coimbatore	..	2	4	63	12	81	81	63	103	18	34	..	..	81	137	..
South Coimbatore	..	1	11	5	7	24	24	11	25	2	24	5	18	18	67	6
Madura .. Under the Forest Act	10	10	62	6	22	100	110	65	210	36	99	..	..	101	309	9
Madura .. Under the Penal Code	..	..	7	1	2	10	10	6	16	3	15	..	..	9	31	1
Total ..	10	10	69	7	24	110	120	71	226	39	114	..	..	110	340	10
Tinnevelly. Under the Forest Act	1	10	8	1	..	19	20	6	24	3	13	11	18	20	55	..
Tinnevelly. Under the Penal Code	2	..	54	..	8	62	64	55	91	5	14	..	..	60	105	4
Total ..	3	10	62	1	8	81	84	61	115	8	27	11	18	80	160	4
Malabar (Wynaad and Pálghát)	..	4	13	5	5	27	27	16	24	3	4	3	3	22	31	5
Malabar (Nilambúr)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara	24	1	211	..	5	217	241	83	146	38	99	102	141	223	386	18
Total ..	94	44	885	161	249	1,339	1,433	574	1,231	243	748	460	775	1,277	2,754	156

* Omitted by the District Forest officer in the return for 1885-86 but now entered.
† Withdrawn.

ANNUAL FORM *No.* 64.

Forest Department, Madras, Soutern Circle.

SUMMARY of Revenue of the different Districts, 1886-87.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North, Coimbatore.
1	2	3	4	5	6	7	8	9
Receipts.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Timber and other produce removed from the forests by Government agency—								
(*a*) Timber	..	1,378 3 1	1,507 8 0	3,221 1 9	1,684 10 6	68 9 0	..	24 10 0
(*b*) Firewood and charcoal	..	990 0 0	7,423 8 3	6,511 13 6	213 9 6	15,080 13 0	..	..
(*c*) Bamboos	..	..	133 3 6	5 3 0	356 12 0	10 4 0	..	..
(*d*) Sandalwood	..	..	4,595 11 5	157 3 0	304 8 7	..	..	..
(*e*) Grass and other minor produce	..	1,132 0 0	252 12 0	858 8 8	0 11 0	102 14 0	..	..
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	..	4,007 13 3	18,037 15 6	4,710 15 5	10,371 8 0	17,573 7 8	240 8 4	4,928 6 6
(*b*) Firewood and charcoal	..	8,834 5 5	41,057 11 5	13,752 9 5	23,229 11 9	5,156 11 4	5,250 12 4	4,693 9 8
(*c*) Bamboos	..	343 7 9	16,123 14 0	3,522 4 9	24,303 9 0	3,172 6 1	69 8 0	9,506 10 0
(*d*) Grazing and fodder grass	..	641 6 9	1,423 0 0	1,306 3 5	24 1 3	2,327 14 3	414 2 0	22,464 11 8
(*e*) Other minor produce	..	1,500 15 8	16,250 10 0	10,130 1 1	55,611 13 3	4,348 8 11	2,620 6 0	32,909 2 0
III. Confiscated drift and waifwood	..	95 12 11	234 3 3	255 12 7	520 4 11	57 1 11	24 15 3	129 13 9
IV. Revenue from forests not managed by Government.	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(*a*) Fines and forfeitures	..	..	..	183 5 3	1 8 0	..	..	..
(*b*) Refunds	101 6 4	3 14 2	2 9 4	10 5 4	8 5 0	14 13 4	..	44 8 0
(*c*) Other sources	50 6 11	215 8 0	200 9 6	241 10 6	452 8 5	..	61 10 9	30 0 0
Total ..	151 13 3	19,143 7 0	107,243 4 2	44,867 1 8	117,083 9 2	47,913 7 6	8,681 14 8	74,731 7 7

Summary of Revenue of the different Districts, 1886-87.

Budget heads.	South Coimbator.	Madura.	Tinnevelly.	Malabar (Wynaad and Pálghat).	Malabar (Nilambúr).	South Canara.	Total.
	10	11	12	13	14	15	16
Receipts.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Timber and other produce removed from the forests by Government agency—							
(*a*) Timber	6,456 7 1	572 1 0	8,753 4 8	18,344 0 1	14,862 7 1	9,697 12 4	66,570 10 7
(*b*) Firewood and charcoal	..	1,653 8 6	..	1,672 13 0	..	153 2 3	33,699 4 0
(*c*) Bamboos	..	..	268 14 0	69 9 7	1,684 6 2	..	2,528 4 3
(*d*) Sandalwood	..	..	..	..	..	..	5,057 7 0
(*e*) Grass and other minor produce	7,154 8 5	..	45 1 9	497 10 5	..	22,401 15 6	32,446 1 9
II. Timber and other produce removed from the forests by consumers or purchasers—							
(*a*) Timber	10,097 8 5	18,203 7 11	5,886 13 2	2,606 9 0	973 15 1	2,578 6 2	1,00,217 6 5
(*b*) Firewood and charcoal	11,446 3 3	14,086 10 11	22,944 7 10	426 0 0	..	14,119 13 9	1,64,998 11 1
(*c*) Bamboos	5,722 15 0	3,396 13 0	870 4 4	511 15 4	151 10 4	500 11 6	68,196 1 1
(*d*) Grazing and fodder grass	5,241 8 3	1,392 6 0	312 8 0	117 0 0	..	..	35,664 13 7
(*e*) Other minor produce	8,195 7 7	22,041 11 10	14,100 9 0	1,444 4 0	..	1,884 13 3	1,71,038 6 7
III. Confiscated drift and waifwood	103 9 9	624 7 4	342 15 10	6 0 5	..	502 1 5	2,897 3 4
IV. Revenue from forests not managed by Government ..	..	..	..	..	..	..	..
V. Miscellaneous—							
(*a*) Fines and forfeitures	..	22 12 0	132 4 5	..	278 15 5	22 8 0	641 5 1
(*b*) Refunds	15 10 0	12 15 9	253 15 2	345 5 2	435 7 9	345 4 7	1,594 7 11
Other sources	512 13 11	52 8 7	661 6 9	1,362 4 0	0 2 0	5,142 15 9	8,984 9 1
Total ..	54,946 11 8	62,059 6 10	54,572 8 11	27,403 7 0	18,386 15 10	57,349 8 6	6,94,534 11 9

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of Expenditure of the different Districts, 1886-87.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.
1	2	3	4	5	6	7	8	9
A.—*Conservancy and Works.*	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I. Timber and other produce removed from the forests by Government agency—								
(*a*) Timber	..	523 6 0	1,532 6 11	1,542 3 5	1,333 13 7	18 13 0	..	0 4 0
(*b*) Firewood and charcoal	..	..	1,708 2 10	2,571 13 7	415 7 9	6,972 9 0	..	..
(*c*) Bamboos	..	..	..	1 0 6	181 13 6	1 8 0	..	..
(*d*) Sandalwood	1 12 0	..	390 4 10	131 9 10	79 0 9	3 0 0	..	6 13 3
(*e*) Grass and other minor produce	..	65 0 0	..	398 3 1	..	20 0 0	2 0 0	..
II. Timber and other produce removed from the forests by consumers or purchasers	3,180 9 9	1,231 5 6	6,247 8 3	2,342 0 4	10,582 2 2	3,767 10 6	272 9 7	8,058 5 0
III. Confiscated drift and waifwood	..	..	25 0 0	4 7 8	12 9 6	..	0 6 0	5 8 0
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	...	..	..
VI. Live stock, stores, tools and plant—								
(*a*) Purchase of cattle	..	..	..	..	..	397 8 0	..	..
(*b*) Feed and keep of cattle	..	..	..	15 3 0	..	699 4 9	..	..
(*c*) Stores, tools and plant	242 11 8	112 14 0	241 3 6	420 10 4	845 7 0	580 15 0	..	315 10 0
VII. Communications and buildings—								
(*a*) Roads and bridges	..	351 12 0	1,562 12 3	461 0 6	..	..	..	180 0 0
(*b*) Buildings	..	131 8 11	1,937 9 11	239 6 6	735 3 1	240 0 0	250 0 0	1,923 3 11
(*c*) Other works	..	..	..	337 9 9	..	..	..	..
VIII. Demarcation, improvement and extension of forests—								
(*a*) Demarcation	..	1,402 8 10	345 1 1	578 2 6	1,755 1 8	357 14 6	1 12 0	723 6 8
(*b*) Compensation for land and rights	..	253 0 0	..	1,278 3 0	6,514 4 0	256 7 2	..	131 0 0
(*c*) Surveys and working plans	228 11 3	..	..	24 8 3	88 13 10	697 13 7	..	76 4 0
(*d*) Plantations	1,140 14 6	1,425 14 0	7,475 3 8	7,423 7 8	4,040 8 7	4,584 5 9	2,638 11 11	818 12 10
(*e*) Protection from fire	..	385 8 0	1,917 1 1	1,223 10 1	2,560 15 4	188 9 0	..	296 1 4
(*f*) Other works	..	1,419 5 6	4,703 14 7	6,234 2 5	2,167 1 9	947 5 8	1,474 6 3	590 4 10
IX. Miscellaneous—								
(*a*) Refunds	..	1,239 10 4	103 4 3	43 7 6	144 7 6	32 0 0	20 0 0	31 0 0
(*b*) Law charges	1 0 0	..	..	158 3 8	0 10 0	..	..	..
(*c*) Other charges	83 6 0	..	6 10 0	26 7 2	99 4 7	..	..	23 14 6
Total A.—Conservancy and Works	4,879 1 2	8,541 13 1	28,196 3 2	25,455 8 9	31,556 12 7	19,766 3 11	4,659 13 9	13,180 8 4

Summary of Expenditure of the different Districts, 1886-87—*continued.*

Budget heads.	South Coimbatore.	Madura.	Tinnevelly.	Malabar (Wynaad and Pálgaht).	Malabar (Nilambúr.)	South Canara.	Total.
	10	11	12	13	14	15	16
A.—*Conservancy and Works.*	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I. Timber and other produce removed from the forests by Government agency—							
(*a*) Timber	12,776 6 8	497 10 2	6,447 1 5	7,490 2 4	13,264 13 9	8,549 2 10	53,976 4 1
(*b*) Firewood and charcoal	..	705 5 1	15 4 4	66 15 6	..	245 11 0	12,701 5 1
(*c*) Bamboos	..	..	228 0 0	..	..	..	412 6 0
(*d*) Sandalwood	..	..	..	..	..	..	612 8 8
(*e*) Grass and other minor produce	5,501 3 0	..	758 0 3	178 12 2	37 8 0	16,522 4 5	23,482 14 11
II. Timber and other produce removed from the forests by consumers or purchasers	3,580 15 6	5,330 8 0	5,150 1 11	298 8 6	..	3,713 7 10	53,755 12 10
III. Confiscated, drift and waifwood	92 1 3	19 0 11	7 1 0	..	..	2 2 3	168 4 7
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	75,000 0 0	..	..	..	1,053 4 0	..	76,053 4 0
VI. Live stock, stores, tools and plant—							
(*a*) Purchase of cattle	..	75 0 0	..	..	1,264 9 2	..	1,737 1 2
(*b*) Feed and keep of cattle	87 2 1	306 10 11	..	2,073 15 8	3,469 0 7	..	6,651 5 0
(*c*) Stores, tools and plant	38 14 0	82 9 7	777 0 4	279 2 6	467 6 6	555 0 6	4,959 8 11
VII. Communications and buildings—							
(*a*) Roads and bridges	701 3 9	607 6 1	5,134 7 2	333 7 1	191 9 0	..	9,523 9 10
(*b*) Buildings	5,409 12 7	979 10 1	650 0 7	2,359 15 5	451 15 9	134 12 11	15,443 3 8
(*c*) Other works	256 3 8	..	20 12 10	405 14 4	..	2 1 0	1,022 9 7
VIII. Demarcation, improvement and extension of forests—							
(*a*) Demarcation	427 7 5	345 11 4	1,021 12 7	1,199 3 0	..	602 11 5	8,760 13 0
(*b*) Compensation for land and rights	..	..	67 15 5	3,064 0 0	8,263 12 4	..	19,828 9 11
(*c*) Surveys and working plans	625 2 6	786 6 8	52 8 0	7 8 0	..	139 3 4	2,726 15 5
(*d*) Plantations	158 12 8	2,060 2 8	324 2 6	1,960 9 3	5,960 4 11	819 0 11	40,830 15 10
(*e*) Protection from fire	737 4 2	4,724 5 5	2,320 6 8	1,346 12 6	732 5 6	390 3 6	16,823 2 7
(*f*) Other works	620 5 5	..	4,468 2 4	580 13 0	251 14 10	269 13 0	23,727 9 7
IX. Miscellaneous—							
(*a*) Refunds	14 10 0	..	221 0 0	20 0 0	..	1,705 7 6	3,575 7 1
(*b*) Law charges	4 0 0	..	0 8 0	2,589 6 6	..	11 2 0	2,764 14 2
(*c*) Other charges	24 4 10	..	6 7 0	340 7 0	..	42 6 6	653 3 7
Total A.—Conservancy and Works	1,06,055 13 6	16,520 6 11	27,670 12 4	24,595 8 9	35,408 8 4	33,704 10 11	3,80,191 13 6

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

SUMMARY of Expenditure of the different Districts, 1886-87.

Budget heads	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North, Coimbatore.
1	2	3	4	5	6	7	8	9
B.—Establishments.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Brought forward—Total A.—Conservancy and Works ..	4,879 1 2	8,541 13 1	28,196 3 2	25,455 8 9	31,556 12 7	19,766 3 11	4,659 13 9	13,180 8 4
I. Salaries—								
(*a*) Conservators	18,051 1 2	..	..	..	..	..	..	..
(*b*) Superior officers	27,566 6 3	2,927 6 8	6,300 0 0	9,150 0 0	9,690 0 0	7,440 15 6	245 2 7	9,061 7 3
(*c*) Subordinate forest and depôt establishments ..	4,955 10 8	2,129 10 0	9,128 15 8	9,187 11 7	12,832 15 7	4,635 0 6	1,220 0 0	5,230 7 1
(*d*) Office establishments	18,206 4 3	733 10 10	1,907 9 7	1,701 13 11	2,243 11 6	1,353 12 6	440 7 7	1,687 2 9
(*e*) Deputation and special allowances	..	..	..	..	..	..	..	..
II. Travelling Allowances—								
(*a*) Conservators	3,719 12 0	..	..	..	..	..	..	..
(*b*) Superior officers	8,223 13 9	1,405 2 6	1,799 15 0	1,800 0 0	1,420 3 9	1,856 8 7	..	1,800 0 0
(*c*) Subordinate forest and depôt establishments ..	2,284 13 11	352 6 9	2,722 0 0	1,871 2 2	3,764 2 4	1,553 2 1	301 12 10	1,666 6 0
(*d*) Office establishments	3,295 15 3	138 6 10	224 6 4	262 1 2	250 15 5	98 5 0	79 2 8	193 14 10
III. Contingencies—								
(*a*) Stationery	22 3 4	7 10 8	4 7 0	..	22 8 2	..	..	..
(*b*) Carriage of tents and records	1,239 1 10	58 9 9	100 8 4	171 14 8	211 0 0	20 4 6	18 5 0	112 14 7
(*c*) Rents, rates and taxes	1,450 5 10	..	6 0 0	356 0 0	30 8 0	205 0 0	..	103 8 0
(*d*) Pay of police guards	..	..	..	..	..	..	..	..
(*e*) Official postage	934 7 4	117 15 6	286 5 6	494 13 0	670 13 6	315 11 6	99 4 0	327 14 2
(*f*) Sundries	2,450 7 2	226 11 10	559 6 3	433 1 8	1,425 6 4	196 12 8	57 14 10	578 0 0
Total B, Establishments ..	92,400 6 9	8,097 11 4	23,039 9 8	25,428 10 2	32,562 4 7	17,675 8 10	2,462 1 6	20,761 10 8
Grand Total of Expenditure ..	97,279 7 11	16,639 8 5	51,235 12 10	50,884 2 11	64,119 1 2	37,441 12 9	7,121 15 3	33,942 3 0

Budget heads.	South Coimbatore.	Madura.	Tinnevelly.	Malabar (Wynaad and Pálghat)..	Malabar (Nilambúr)	South Canara.	Total.
10	11	12	13	14	15	16
B.—Establishments.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Brought forward—Total A.—Conservancy and Works ..	1,06,055 13 6	16,520 6 11	27,670 12 4	24,595 8 9	35,408 8 4	33,704 10 11	3,80,191 13 6
I. Salaries—							
(*a*) Conservators	..	..	..	..	..	..	18,051 1 2
(*b*) Superior officers	6,607 15 3	9,752 2 5	5,385 7 9	8,190 0 0	7,974 5 8	5,370 15 6	1,15,662 4 10
(*c*) Subordinate forest and depôt establishments ..	8,806 13 6	7,024 9 6	7,429 5 6	7,197 2 8	2,501 14 3	4,527 5 1	86,807 9 7
(*d*) Office establishments	1,850 0 8	1,630 12 10	1,845 2 11	2,460 5 3	1,322 15 6	1,320 15 2	38,704 13 3
(*e*) Deputation and special allowances.	..	..	..	..	..	..	..
II. Travelling Allowances—							
(*a*) Conservators	..	..	..	..	..	..	3,719 12 0
(*b*) Superior officers	1,563 13 11	2,760 14 10	1,076 12 5	1,682 2 3	1,655 11 4	1,440 0 0	28,485 2 4
(*c*) Subordinate forest and depôt establishments ..	2,438 5 6	1,604 0 0	2,009 6 11	2,211 0 8	685 2 0	1,692 5 8	25,156 2 10
(*d*) Office establishments	112 2 8	285 5 3	414 15 2	244 12 8	80 8 0	239 13 0	5,920 12 3
III. Contingencies—							
(*a*) Stationery	1 8 0	..	..	0 11 0	..	21 6 0	80 6 2
(*b*) Carriage of tents and records	78 2 9	83 15 9	160 4 0	63 4 0	..	225 6 1	2,543 11 3
(*c*) Rents, rates and taxes	67 8 0	..	16 0 0	300 0 0	..	..	2,534 13 10
(*d*) Pay of police guards	..	..	..	..	..	..	..
(*e*) Official postage	167 5 6	385 8 0	454 15 0	221 11 0	62 2 0	419 14 0	4,958 12 0
(*f*) Sundries	397 10 1	330 9 5	417 10 1	468 7 9	64 9 5	297 1 7	7,903 13 1
Total B, Establishments ..	22,091 5 10	23,857 14 0	19,209 15 9	23,039 9 3	14,347 4 2	15,555 2 1	3,40,529 2 7
Grand Total of Expenditure ..	1,28,147 3 4	40,378 4 11	46,880 12 1	47,635 2 0	49,755 12 6	49,259 13 0	7,20,721 0 1

MADRAS, 2nd July 1887.

C. G. DOUGLAS, Examiner of Forests Accounts.

Annual Form No. 65.

Forest Department, Madras, Southern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1886-87.

	District.	Department debtor.			Department creditor.			Balance due.		Remarks.
		At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Direction.	Conservator's office, Southern Circle ..	..	3,806 10 8	3,806 10 8	152 6 8	4,012 0 1	4,164 6 9	357 12 1	..	
	Forest Settlement office, Chingleput, &c.	..	473 12 7	473 12 7	..	513 15 7	513 15 7	40 3 0	..	
	Forest school, Dehra Dun, S. C. ..	..	5,403 11 5	5,403 11 5	..	5,582 0 9	5,582 0 9	178 5 4	..	
	Forest Settlement office, Salem, &c. ..	..	..	..	..	..	..	..	..	
	Three-fifths of Examiner's office ..	..	3,003 11 7	3,003 11 7	46 7 3	2,957 14 3	3,004 5 6	0 9 11	..	
	Chingleput	..	9,680 12 8	9,680 12 8	1,494 6 10	9,292 0 3	10,786 7 1	1,105 10 5	..	
	North Arcot	..	32,729 5 11	32,729 5 11	408 5 8	32,537 11 4	32,946 1 0	216 11 1	..	
	South Arcot	..	34,136 3 11	34,136 3 11	..	34,136 3 11	34,136 3 11	..	..	
	Salem	..	36,830 3 9	36,830 3 9	1,399 13 8	36,767 3 8	38,167 1 4	1,336 13 7	..	
	Trichinopoly	..	24,750 5 0	24,750 5 0	764 7 2	24,313 3 4	25,077 10 6	327 5 6	..	
	Tanjore	..	6,268 3 7	6,268 3 7	42 9 8	6,229 9 11	6,272 3 7	4 0 0	..	
	North Coimbatore	..	19,974 9 10	19,974 9 10	2,938 12 4	18,660 1 1	21,598 13 5	1,624 3 7	..	
	South Coimbatore	..	1,10,903 8 3	1,10,903 8 3	1,644 8 10	1,13,055 15 5	1,14,700 8 3	3,797 0 0	..	
	Madura	..	18,054 7 6	18,054 7 6	2,189 9 4	19,203 4 2	21,392 13 6	3,338 6 0	..	
	Tinnevelly	..	29,411 1 0	29,411 1 0	1,117 11 10	30,769 7 1	31,887 2 11	2,476 1 11	..	
	Malabar (Wynaad and Pálghat).. ..	..	28,478 6 7	28,478 6 7	1,166 11 0	29,490 5 0	30,657 0 0	2,178 9 5	..	
	Malabar (Nilumbúr)	..	7,469 5 10	7,469 5 10	422 7 3	7,572 14 0	7,995 5 3	525 15 5	..	
	South Canara	..	34,280 15 9	34,280 15 9	12,603 10 11	32,072 1 6	44,675 12 5	10,394 12 8	..	
	Total ..	..	4,05,655 7 10	4,05,655 7 10	26,392 0 5	4,07,165 15 4	4,33,557 15 9	27,902 7 11	..	

Madras,
5th July 1887.

C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Southern Circle.

Revenue received and outstanding on account of revenue during 1886-87.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Direction ..	Timber and other produce ..	..	151 13 3	151 13 3	151 13 3	..
Chingleput ..	Do. ..	..	19,143 7 0	19,143 7 0	19,143 7 0	..
North Arcot ..	Do. ..	2,161 8 0	1,08,536 6 2	1,10,697 14 2	1,07,243 4 2	3,454 10 0
South Arcot ..	Do. ..	..	45,034 9 8	45,034 9 8	44,867 1 8	167 8 0
Salem	Do. ..	..	1,17,083 9 2	1,17,083 9 2	1,17,083 9 2	..
Trichinopoly ..	Do. ..	891 12 0	47,781 3 9	48,672 15 9	47,913 7 6	759 8 3
Tanjore	Do. ..	..	8,681 14 8	8,681 14 8	8,681 14 8	..
North Coimbatore..	Do. ..	20,976 3 1	74,174 14 3	95,151 1 4	74,731 7 7	20,419 9 9
South Coimbatore..	Do. ..	2,442 2 2	55,215 11 1	57,657 13 3	54,946 11 8	2,711 1 7
Madura	Do. ..	..	63,520 4 1	63,520 4 1	62,059 6 10	1,460 13 3
Tinnevelly ..	Do. ..	1,451 4 0	54,559 5 4	56,010 9 4	54,572 8 11	1,438 0 5
Malabar (Wynaad and Pálghat) ..	Do. ..	..	27,403 7 0	27,403 7 0	27,403 7 0	..
Malabar (Nilambúr).	Do. ..	5,377 14 10	13,083 8 0	18,461 6 10	18,386 15 10	74 7 0
South Canara ..	Do. ..	..	57,469 8 6	57,469 8 6	57,349 8 6	120 0 0
	Total ..	33,300 12 1	6,91,839 9 11	7,25,140 6 0	6,94,534 11 9	30,605 10 3

MADRAS,
2nd July 1887.

G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 67.

Forest Department, Madras, Southern Circle.

Financial results of the year 1886-87.

District.	Timber and other produce removed from the Forests by Government agency.		Other Revenue.		Formation, protection and improvement of Forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction	..	14,755	152	59,980	22,544	152	97,279
Chingleput	3,596	1,989	15,547	7,866	6,785	19,143	16,640
North Arcot	14,147	7,554	93,096	25,045	18,637	1,07,243	51,236
South Arcot	11,010	9,645	33,857	16,691	24,549	44,867	50,885
Salem	3,081	3,294	1,14,003	38,784	22,041	1,17,084	64,119
Trichinopoly	15,320	13,289	32,594	14,506	9,646	47,914	37,441
Tanjore	25	7	8,657	2,020	5,095	8,682	7,142
North Coimbatore	154	53	74,577	28,998	4,891	74,731	33,921
South Coimbatore	13,715	22,753	41,232	12,490	92,904	54,947	1,28,178
Madura	2,850	3,124	59,209	25,915	11,339	62,059	40,324
Tinnevelly	9,411	12,430	45,162	20,906	13,545	54,573	46,867
Malabar (Wynaad and Palghát) ..	20,590	22,910	6,813	5,407	19,319	27,403	47,685
Malabar (Nilambúr)	16,547	26,595	1,840	773	22,387	18,387	49,735
South Canara	32,755	34,062	24,595	12,042	3,156	57,350	49,260
Total ..	1,43,201	1,72,460	5,51,334	2,71,423	2,76,838	6,94,535	7,20,721

Annual Form No. 68.

Forest Department, Madras, Southern Circle.

Trees felled by Government Agency during the year 1886-87.

(Selection Fellings.)

District.	Range, Forest, or Working Circle.	Description of Trees.	Number of Trees. On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
Chingleput ..	.....	.....	..	..	..	.....	..	..	..	
North Arcot ..	.....	.....	..	..	..	.....	..	..	..	
South Arcot ..	No. I.—Tiruvannamalai range.	Vengai	..	436	436	Converted into logs .. 40 Do. poles .. 462	436	436	..	
		Eruvádi	..	39	39	Do. logs .. 2 Do. poles .. 38	39	39	..	
		Karungali	..	11	11	Do. logs .. 4 Do. poles .. 7	11	11	..	
		Sandalwood	..	48	48	Do. billets. 127	48	48	..	
		Do. roots dug ..	..	122	122	Do. do. 122	122	122	..	
		Miscellaneous	..	1,797	1,797	Do. logs .. 121 Do. poles .. 1,756	1,797	1,797	..	
		Total ..	..	2,453	2,453	.....	2,453	2,453	..	
	No. IV, Cuddalore range.	Jack tree	..	1	1	Converted into logs .. 1	1	1	..	
		Palmyra trees	..	5	5	Do. do. .. 5	5	5	..	
		Total of district ..	..	2,459	2,459	.....	2,459	2,459	..	
Salem	Denkanikota ..	Casuarina	..	4	4	Converted into logs	4	4	..	
		Bilvaram	..	30	30	Do. do.	30	30	..	
		Timber, first class ..	..	31	31	Do. do.	31	31	..	
		Do. second class..	..	666	666	Do. do.	666	666	..	
		Do. third class ..	..	464	464	Do. do.	464	464	..	
	Pennagaram ..	Miscellaneous	..	2	2	Do. do.	2	2	..	
		Total ..	..	1,197	1,197	.....	1,197	1,197	..	
Trichinopoly ..	Kulitalai	Casuarina	..	9	9	Sold in retail	9	9	..	
		Babul	..	4	4	Do.	4	4	..	
		Atti	..	1	1	Do.	1	1	..	
		Marudai	..	1	1	Do.	1	1	..	
		Vágai	..	1	1	Do.	1	1	..	
		Total ..	..	16	16	.....	16	16	..	

Trees felled by Government Agency during the year 1886-87—*continued.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees						Remarks.
			On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	
Tanjore	....	....	..	..	..	....	NO. ..	..	..	
North Coimbatore.	....	....	..	..	..	....	..	..	..	
South Coimbatore	No. I. Tunakadavu Range, Tekadi leased forest.	Teak	..	220	220	Converted into logs	220	220	..	Outturn 542 logs.
Madura ..	No. I Range—Cumbum.	Vengai	..	19	19	Sold	19	19	..	
		Blackwood	..	4	4	Do.	4	4	..	
		Miscellaneous	..	2	2	Do.	2	2	..	
	No. II Range—Upper Pulnies.	Vengai	..	11	11	Do.	5	5	6	
		Miscellaneous	..	3	3	Do.	..	..	3	
		Total ..	..	39	39	....	30	30	9	
Tinnevelly ..	Ambasamudram ..	Kongu	..	131	131	All converted into scantlings ..	131	131	..	
		Vengai	..	12	12	Sold	12	12	..	
Malabar (Wynád and Palghát.)	Pálghat Range ..	Blackwood	..	1	1	Converted into 4 logs ..	1	1	..	
		Vengai	..	3	3	Do. 9 logs ..	3	3	..	
		Miscellaneous	..	183	183	Do. 244 logs ..	162	162	21	
	Wynaad Sub-Division.	Teak	..	2,469	2,469	Do. 4,144 logs ..	2,469	2,469	..	
		Blackwood	..	625	625	Do. 818 logs ..	625	625	..	
		Total ..	..	3,281	3,281	....	3,260	3,260	21	
Malabar (Nilambúr).	Panangod	Teak	223	9	232	Taken to depót	228	232	..	
						Rejected	4			
		Blackwood	2	19	21	Taken to depôt	21	21	..	
		Benteak	105	58	163	Taken to depot	157	163	..	
						Rejected	6			
		Miscellaneous	19	12	31	Taken to depot	31	31	..	
	Pokód	Blackwood	..	87	87	Do.	87	87	..	
		Teak	..	44	44	Do.	44	44	..	
		Benteak	..	85	85	Do.	85	85	..	
		Miscellaneous	..	27	27	Do.	27	27	..	
	Arimbrakutta ..	Miscellaneous	..	20	20	Taken to river side	20	20	..	
	Kanakutta ..	Blackwood	..	39	39	....	..	..	39	
		Benteak	..	79	79	....	..	..	79	
		Miscellaneous	..	11	11	....	..	..	11	
	Valluvasheri ..	Teak	..	10	10	....	..	..	10	
		Total ..	349	500	849	....	710	710	139	

Trees felled by Government Agency during the year 1886-87—*continued.*

District.	Range, Forest, or Working Circle.	Description of Trees.	Number of Trees. On hand at commencement of the year.	Felled during the year.	Total	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
South Canara ..	Kundapur range ..	Blackwood	1	..	1	....	..	..	1	
		Miscellaneous	4	..	4	....	..	..	4	
	Upinangadi ..	Blackwood	17	22	39	Converted into logs	32	32	7	Outturn one per tree cut.
		Miscellaneous	132	398	530	Do. do.	231	231	299	* Outturn 6 logs.
		Teak	..	4	4	Do. do.	4 *	4	..	
		Total ..	154	424	578	....	267	267	311	
Grand Total ..	..	Teak	223	2,756	2,979	Converted into 4,690 logs ..	2,693	2,969	10	
						Taken to depôt	272			
						Rejected	4			
		Vengai	..	481	481	Converted into logs 49, poles 462.	439	475	6	
						Sold	36			
		Blackwood	20	797	817	Converted into 854 logs ..	658	770	47	
						Taken to depôt	108			
						Sold	4			
		Sandalwood	..	48	48	Converted into 127 billets ..	48	48	..	
		Sandalwood roots	..	122	122	Do. 122 do. ..	122	122	..	
		Benteak	105	222	327	Taken to depôt	242	248	79	
						Rejected	6			
		Miscellaneous	155	3,853	4,008	Converted into 1,805 logs, 1,801 poles and some scantlings.	3,574	3,670	338	
						Taken to depôt	78			
						Sold	18			
		Total ..	503	†8,279	8,782	....	..	8,302	480	† Include sandalwood roots.

Annual Form No. 69.

Forest Department, Madras, Southern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87.

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Chingleput.	Tiruvallúr ..	Red sanders roots ..	..	..	Tons. lb. 50 0	..	Tons. lb. 50 0	..	Removed to depôt ..	Tons. lb. 50 0	..	Tons. ..	..
		Jungle wood poles..	..	..	..	C. ft. 100	..	C. ft. 100	Sold	..	C. ft. 100	..	..
		Fuel	..	..	1,440 135	..	1,440 135	..	Do.	1,410 0	..	30	lb. 135
		Gall-nuts.. ..	..	..	2 448	..	2 448	..	Removed to depôt ..	2 448	..	..	..
		Avaram bark ..	..	..	105 0	..	105 0	..	Sold	105 0	..	..	..
		Total ..	..	..	1,597 583	100	1,597 583	100	....	1,567 448	100	30	135
North Arcot.	Chandragiri ..	Red wood roots and stumps.	..	..	165 0	..	165 0	..	Removed to Mamandur depôt.	165 0	..	..	..
		Casuarina branch wood.	..	..	24 0	..	24 0	..	Sold to public ..	24 0	..	..	..
		Casuarina poles ..	..	..	No. 28	..	No. 28	..	Do. ..	No. 28	..	..	..
		Total ..	..	..	Tons. 189 No. 28	..	Tons. 189 No. 28	..	....	Tons. 189 No. 28	..	..	..
	Palmanér ..	Karuvelam ..	..	..	1 Tree.	..	1 Tree.	..	Sold to Sub Collector, North Arcot.	1 Tree.	..	..	..
	Vellore ..	Casuarina, Babul and jungle wood	..	..	Tons. lb. 237 1,357	..	Tons. lb. 237 1,357	..	Removed to Jail depôt.	Tons. lb. 237 1,357	..	..	..
		Naga wood and branches.	..	..	4 cart loads. No.	..	4 cart loads. No.	..	Sold to Sub-Collector.	4 cart loads. No.	..	..	..
		Bamboos.	..	..	20 large, 1,181 small.	..	20 large, 1,181 small.	..	Sold to Arsenal ..	20 large, 1,181 small.	..	..	..
		Sandalwood ..	..	..	Tons. lb. 6 430	..	Tons. lb. 6 430	..	Removed to sandal-wood depôt.	Tons. lb. 6 430	..	..	..
	Head quarter range.	Casuarina branch wood.	Tons. lb. 216 1,120	..	143 0	..	359 1,120	..	Sold	283 2,053	..	Tons. lb. 75 1,307	..
		Casuarina wood ..	443 1,120	..	538 1,120	..	982 0	..	Do.	*982 0	..	..	..

* Form No. 71 gives 6 tons less.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
North Arcot—*cont.*	Head quarter range—*cont.*	Casuarina trees ..	..	..	No. 136	..	No. 136	..	Sold	No. 136	..	..	..
		Do. plants ..	..	..	27,700	..	27,700	..	Do.	27,700	..	..	..
		Do. seed ..	..	..	Tons. lb. 0 100	..	Tons. lb. 0 100	..	Do.	Tons. lbs. 0 100	..	..	..
		Ingadulcis ..	..	..	15 0	..	15 0	..	Do.	15 0	.. lbs.	..	..
	Confiscations..	Miscellaneous ..	..	..	3 672	..	3 672	..	Do.	3 0	672	..	..
		Bamboos	..	..	2 336	..	2 336	..	Do.	2 0	336	..	..
		Charcoal	..	..	168	..	168	..	Do.	..	168	..	..
		Timber	..	..	..	C. ft. 409	..	C. ft. 409	Do.	..	C. ft. 409	..	..
		Firewood ..	..	..	1 0	..	1 0	..	Do.	1 0	..	..	..
		Total ..	..	..	6 —1,176	C. ft. 409	6 —1,176	C. ft. 409	....	6 —1,176	C. ft. 409	..	..
South Arcot.	I. Trinomalai.	Vengai poles ..	55	C. ft. 300	462	1,436 1	517	1,736 1	Sold	517	1,736 1	..	..
		Vengai logs ..	..	..	40	212 9	40	212 9	Do.	40	212 9	..	..
		Miscellaneous timber logs.	..	..	127	517 10	127	517 10	Do.	30	126 3	..	..
									Removed to Tirnomalai depôt.	5	18 6	..	..
		Miscellaneous poles.	78	302 9	1,903	3,430 4	1,981	3,733 1	Sold	92	373 1	..	..
									Removed to sale depôt.	2	7 1	..	..
		Teak felloes ..	..	..	328	72	328	72	Sold	1,979	3,726 1	..	..
									Removed to Tirnomalai depôt.	328	72	..	..
		Firewood	Tons. 10	..	1 1,680	..	11 1,680	..	Do. ..	11 1,680	..	..	..
		Sandalwood and shavings.	..	..	2 814½	..	2 814½	..	Removed to sale depôt.	2 814½	..	..	..
		Honey	..	..	0 764½	..	0 764½	..	Do. ..	0 78½	..	..	..
									Sold	0 686			
		Wax	..	..	9 195	..	0 195	..	Do.	0 182	..	..	..
									Removed to Trinomalai depôt.	0 13			
		Miscellaneous ..	..	..	9 24	..	9 24	..	Do. ..	1 0	..	..	..
									Sold	8 24			
	II. Tindivanam.	Casuarina poles ..	..	..	No. 110	242 3	No. 110	242 3	Do.	No. 110	242 3	..	..
		Firewood ..	..	..	Tons. lbs. 0 1,204	..	Tons. lbs. 0 1,204	..	Do.	Tons. lb. 0 1,204	..	..	..
		Miscellaneous ..	..	..	0 132	..	0 132	..	Do.	0 132	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot—*cont.*	III. Villupuram.	Miscellaneous timber poles.	..	..	No. 22	Tons. lb. 24 0	No. 22	Tons. lb. 24 0	Sold	No. 22	Tons. lb. 24 0	..	..
		Firewood ..	..	..	Tons. lb. 711 680	..	Tons. lb. 711 680	..	Do.	Tons. lb. 677 680	..	Tons. 34	..
		Bamboos ..	..	..	No. 20	..	No. 20	..	Do.	No. 20	..	..	..
	IV. Cuddalore.	Timber logs ..	..	..	1	13 6	1	13 6	Sold	No. 1	13 6	..	..
		Do. ..	..	..	5	..	5	..	Used departmentally..	5	..	..	..
		Casuarina poles ..	..	..	2,639	1,321 1	2,639	1,321 1	Do. ..	300	77 6	..	..
									Sold	2,339	1,243 7	..	..
		Casuarina, &c., firewood.	Ton. lb. 85—1,176	..	Tons. lb. 1,012—1,481	..	Tons. lb. 1,098—417	..	Do.	Tons. lb. 677 410	..	Tons. lb. 415 1,627	..
									Used departmentally..	5 620			
		Casuarina plants, seedling, &c.	..	..	No. 247,278	..	No. 247,278	..	Sold	No. 247,278	..	..	..
		Miscellaneous seeds	..	..	11 measures. lb.	..	11 measures. lb.	..	Do.	11 measures. lb.	..	..	..
		Honey ..	..	..	1	..	1	..	Do.	1	..	..	..
		Wax ..	..	..	13⅛	..	13⅛	..	Do.	13⅛	..	..	..
		Miscellaneous ..	..	..	1,799	..	1,799	..	Do.	1,799	..	..	..
	V. Tirukoilúr	Casuriana poles ..	..	..	No. 12	10 — 11	No. 12	10 11	Sold	No. 12	10 11	..	..
		Firewood ..	..	..	Tons. lb. 23 672	..	Tons. lb. 23 672	..	Do.	Tons. lb. 23 672	..	..	..
	Confiscated Timber, &c.	Timber ..	..	..	..	C. ft. 167	..	C. ft. 167	Sold	..	C. ft. 167	..	..
		Miscellaneous trees and plants.	..	..	No. 24	..	No. 24	..	Do.	No. 24	..	..	..
		Firewood ..	..	..	Tons. lb. 27 771	..	Tons. lb. 27 771	..	Do.	Tons. lb. 27 771	..	..	..
		Charcoal ..	..	..	4 224	..	4 224	..	Do.	4 224	..	..	..
		Bamboos ..	..	..	No. 49	..	No. 49	..	Do.	No. 49	..	..	..
		Do. ..	..	..	lb. 280	..	lb. 280	..	Do.	lb. 280	..	..	..
		Minor produce ..	..	..	No. 14	..	No. 14	..	Do.	No. 14	..	..	..
		Do. ..	..	..	Tons. lb. 45 2,204	..	Tons. lb. 45—2,204	..	Do.	Tons. lb. 45—2,204	..	..	..
		Do. ..	..	..	14 bundles.	..	14 bundles	..	Do.	14 bundles.	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Salem.	Salem ..	Engine fuel ..	..	..	Tons. 106	..	Tons. 106	..	Sold to contractors ..	Tons. 106	..	..	..
	Tirupatûr ..	Miscellaneous ..	..	..	No. 1,100	..	No. 1,100	..	Sold by auction ..	No. 1,100	..	..	..
		Sandalwood ..	..	..	Tons. lb. 0—252	..	Tons. lb. 0—252	..	Removed to sale depôt.	Tons. lb. 0—252	..	..	..
	Dharmapuri ..	Logs of miscellaneous classes.	..	..	No. 2	8 0 0	No. 2	8 0 0	Do. ..	No. 2	8 0 0	..	..
	Hosur ..	Timber 1st, 2nd and 3rd class.	..	..	1161	1,456 0 8	1,161	1,456 0 8	Do. ..	1161	1,456 0 8	..	..
		Miscellaneous timber.	..	..	34	118 5 0	34	118 5 0	Do. ..	34	118 5 0	..	..
		Bamboos	..	..	No. 1,512 thick. 12,200 small.	..	No. 1,512 12,200	..	Do. ..	No. 1512 12,200	..	..	..
		Sandalwood ..	..	..	Tons lb. 1—1,683½	..	Tons. lb. 1—1,683½	..	Do. ..	Tons. lb. 1—1,683½	..	..	..
		Miscellaneous ..	..	..	No. 72	9 0 0	No. 72	9 0 0	Do. ..	No. 72	9 0 0	..	..
	Confiscated timber, &c.	Timber	..	..	..	C. ft. 61	..	C. ft. 61	Sold	..	C. ft. 61	..	..
		Junglewood ..	..	..	..	682	..	682	Do. ..	..	682	..	..
		Firewood	..	..	Tons. lb. 23—1,008	..	Tons. lb. 23—1,008	..	Do.	Tons. lb. 23 224	..	..	..
									Returned to parties ..	0 784			
		Charcoal	..	..	10—952	..	10—952	..	Sold	10 504	..	..	..
									Returned to parties ..	0 448			
		Bamboos	..	..	1—1,260	..	1—1,260	..	Sold	1 700	..	..	..
									Returned to parties ..	0 560			
		Sandalwood ..	..	..	0—284	..	0—284	..	Sold	0 284	..	..	..
		Posts	..	..	No. 187	..	No. 187	..	Do.	No. 181	..	..	..
									Returned to parties ..	6			
		Leaves	..	..	Tons. lb. 1—1,344	..	Tons. lb. 1—1,344	..	Sold	Tons. lb. 1—1,344	..	..	..
		Miscellaneous ..	..	..	No. 703	..	No. 703	..	Do.	No. 703	..	..	..
Trichinopoly.	Udaiyarpalaiyam.	Casuarina poles ..	.. Tons.	.. lb.	No. 55	..	No. 55	..	Sold in retail ..	No. 55	..	..	..
		Firewood	7	1,456	690	1,519	698	735	Removed to Tiruvadi depôt.	303	1,344	..	..
									Removed to Kumbakónam depôt. ..	392	1,631		
									Sold	2	..		
		Charcoal	..	..	2	1,120	2	1,120	Do.	2	1,120	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
Trichinopoly—*cont.*	Kulitalai ..	Firewood ..	131	539	3,522	2,006	3,654	305	Removed to Trichinopoly depot.	327	2,016	215	1,084
									Sold to South Indian Railway Company.	2,654	341		
									Sold in retail ..	456	1,344		
					No.		No.			No.			
		Bamboos	..	..	56	..	56	..	Do. ..	56	..	..	..
		Acacia leucophlœa bark.	..	..	4 bundles.	..	4 bundles.	..	Removed to Trichinopoly depot.	4 bundles.	..	..	..
		Miscellaneous timbers.	..	..	No. 16	..	No. 16	..	Sold	No. 16	..	..	..
			Tons.	lb.			Tons.	lb.		Tons.	lb.		
	Musiri ..	Gall-nuts ..	2	160	..	..	2	160	Sold	2	160	..	..
Tanjore.	..	....	..	..	..	..	..	..	....	..	..	..	..
North Coimbatore.	Satyamangalam.	Sandalwood ..	..	..	..	9 maunds.	..	9 maunds.	Taken to sale depot ..	..	9 maunds.	..	..
	Kollegál ..	Do. ..	..	..	..	4 do.	..	4 do.	Do. ..	..	4 do.	..	..
						C. ft.		C. ft.			C. ft.		
	Confiscated timber, &c.	Miscellaneous ..	..	..	..	4	..	4	Sold	..	4	..	..
		Vengai poles ..	..	..	4	..	No. 4	..	Do.	No. 4	..	..	..
		Miscellaneous timbers.	..	..	..	882	..	882	Do.	..	866	..	..
									Taken to depot ..	..	16	..	..
		Miscellaneous saplings.	..	..	20	..	20	..	Sold	20	..	..	..
					Tons. cwt.		Tons. cwt.			Tons. cwt.			
		Bamboos ..	..	..	2 —2	..	2 —2	..	Do.	1 10	..	..	..
									Taken to sale depot ..	0 12			
		Firewood ..	..	..	6 —12	..	6 —12	..	Do. ..	5 12	..	..	..
									Sold	1 0			
		Wodder carts ..	..	..	No. 4	..	No. 4	..	Taken to sale depot ..	No. 4	..	..	..
					lb.		lb.			lb.			
		Minor produce ..	..	..	84	..	84	..	Sold	84	..	..	..
South Coimbatore.	I. Tunakadavu range.	Teak	158	7,332	542 logs. + *13	23,397 ..	713	30,729	Removed to Walayar adivaram.	270	9,528	443	20,077
									Decrease in measurement owing to some of the logs burnt in 1885-86 having been re-squared.	..	1,124		

* Increase caused by splitting and sawing some of the logs.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued*.

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Coimbatore—*cont.*	I. Tunakadavu range—*cont.*	Cardamoms	..	..	lb. 1,981	..	lb. 1,981	..	Removed to sale depôt.	lb. 1,981	..	..	..
		Honey	..	..	101 measures	..	101 measures	..	Do.	101 measures	..	..	..
		Rattans	..	..	No. 68,235	..	No. 68,235	..	Do.	No. 68,235	..	..	..
		Ivory	..	..	lb. 59	..	lb. 59	..	Do.	lb. 59	..	..	..
		Other minor produce	..	..	37,694	..	37,694	..	Do.	37,694	..	..	..
	No. III. Ponachi range.	Cardamoms	..	..	941	..	941	..	Removed to sale depôt.	941	..	..	..
		Honey	..	..	3¾ measures	..	3¾ measures	..	Do.	3¾ measures	..	..	..
		Rattans	..	..	No. 5,000	..	No. 5,000	..	Do.	No. 5,000	..	..	..
		Other minor produce	..	..	lb. 12,029	..	lb. 12,029	..	Do.	lb. 12,029	..	..	..
	Confiscated wood, &c.	Satinwood	..	..	23 pieces	..	23 pieces	..	Sold	23 pieces	..	..	..
		Jungle wood	..	..	..	C. ft. 160	..	C. ft. 160	Do.	..	C. ft. 160	..	..
		Firewood including 2 bundles of ploughs.	..	..	Tons. cwts. 20 —15	..	Tons. cwts 20 —15	..	Do.	Tons. cwts. 20 —15	..	..	..
		Rosewood slabs	..	..	1 heap.	..	1 heap.	..	Do.	1 heap.	..	..	..
		Vembadam bark	..	..	lb. 3,136	..	lb. 3,136	..	Do.	lb. 3,136	..	..	..
		Hare	..	..	No. 1	..	No. 1	..	Do.	No. 1	..	..	..
Madura.	No. I. Range.	Vengai	..	..	19	245	19	245	Sold	19	245	..	..
		Blackwood	..	..	4	55	4	55	Do.	4	55	..	..
		Miscellaneous	..	..	2	89	2	89	Do.	2	89	..	..
	No. II. Range	Vengai	..	..	11	476 C. ft. and 229 Sq. ft.	11	476 C. ft. and 229 Sq ft.	Sold	5	C. ft. 200	6	276 C. ft. and 229 Sq. ft.
		Vagai	..	..	3	C. ft. 160	3	C. ft. 160	Do.	..	..	3	C. ft. 160
		Firewood	..	..	Tons. lb. 238 —555	..	Tons. lb. 238 —555	..	Transferred to depot	Tons. lb. 238 —555	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Madura—*cont.*	Confiscated wood, &c.	Teak	..	..	..	C. ft. 1	..	C. ft. 1	Sold	..	C. ft. 1	..	..
		Vengai	..	..	..	740	..	740	Do.	..	740	..	..
		Jungle wood	..	..	..	365	..	365	Do.	..	365	..	..
		Miscellaneous timbers.	..	..	..	320	..	320	Do.	..	320	..	..
		Firewood	..	..	Tons. lb. 27—1,008	..	Ton. lb. 27—1,008	..	Do.	Tons. lb. 27—1,008	..	..	..
		Charcoal	..	..	0—336	..	0—336	..	Do.	0—336	..	..	..
		Carts with bullocks.	..	..	No. 2	..	No. 2	..	Do.	No. 2	..	..	..
		Bamboos	..	..	Tons. lb. 0—616	..	Tons lb. 0—616	..	Do.	Tons. lb. 0—616	..	..	..
		Miscellaneous minor produce.	..	..	1—1,904	..	1—1,904	..	Do.	1—1,904	..	..	..
Tinnevelly.	Papanasam	Vengai	..	..	12	15	12	15	Sold	12	15	..	..
		Chokla spokes	84	8	..	..	84	8	Do.	84	8	..	..
		Teak fellies	..	..	12	..	12	..	Do.	12	..	..	..
		Teak pieces	..	..	1,101	..	1,101	..	Do.	1,101	..	..	..
		Miscellaneous pieces.	..	..	1,614	..	1,614	..	Transferred to sale depot.	1,324	..	..	..
									Sold	290			
		Miscellaneous timbers.	902	664	8,967	9,444	9,869	10,678	Transferred to depot	4,056	4,395	1,468	2,300
					28½ cart loads	570	28½ cart loads		Used departmentally.	150	96		
									Sold	4,195	3,887		
										28½ cart loads			
		Bamboos	..	..	22½ do.	..	22½ do.	..	Utilized for depot buildings.	2 do.	..	..	..
									Sold	20½ do.			
	Tinnevelly Sub-range.	Seedlings	..	..	No. 1,430	..	No. 1,430	..	Do.	No. 1,430	..	..	..
		Junglewood	..	..	..	672	..	672	Do.	..	672	..	..
	Confiscated wood, &c.	Firewood	..	..	Tons. lb. 59—1,295	..	Tons. lb. 59—1,295	lb. ..	Do.	Tons. lb 59—1,295	..	..	..
		Charcoal	..	..	5—56	..	5—56	..	Do.	5—56	..	..	..
		Miscellaneous minor produce.	..	..	5—560	..	5—560	..	Do.	5—560	..	..	..
Malabar, Wynaad and Pálghat).	Pálghat range.	Blackwood logs	..	..	4	96	4	96	Sold in the forest	4	96	..	..
		Vengai	2	147	9	236	11	383	Sold 312	11	383	..	..
									Written off 71				
		Miscellaneous timbers.	..	..	249	11,645	249	11,645	Sold	240	11,059	9	586

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Malabar (Wynaad and Pálghat).	Pálghat range—*cont.*	Teak poles ..	No. 350	..	No. 968	..	No. 13,18	..	Sold	No. 1,318	..	..	..
		Teak pieces ..	520	..	5,256	..	5,776	..	Do.	5,776	..	..	..
		Firewood ..	..	..	Tons. lb. 3,317—672	..	Tons. lb. 3,317—672	..	Do.	Tons. lb. 3,317—672	..	..	..
		Bamboos	19,977	..	..	..	No. 19,977	..	Do.	No. 19,977	..	..	..
	Wynaad subdivision.	Teakwood ..	..	30,730	4,144 0	82,266	..	112,996	Sold	..	13,754	..	97,722
									Used departmentally.	..	359		
									Delivery for advances paid in previous years.	..	1,161		
		Blackwood ..	..	1,258	818	18,897	..	20,155	Sold	..	7,567	..	11,984
									Delivery for advances paid in previous years.	..	604		
		Vengai	..	52	..	..	..	52	....	..	..	..	52
		Ivory	..	..	lb. 64	..	lb. 64	...	Sold in England ..	lb. 64	..	..	..
		Cardamoms ..	..	..	288	..	288	..	Sold	288	..	..	..
		Honey	..	..	124¾	..	124¾	..	Do.	124¾	..	..	..
		Bees wax.. ..	lb. 55	..	42	..	97	..	Do.	18	..	lb. 70	..
									Used by department ..	9			
Malabar (Nilambúr.)	Panangod forest.	Teak	..	..	No. 228	..	No. 228	..	Taken to forest depôt..	No. 228	..	..	..
	Selection felling.	Blackwood ..	..	..	21	..	21	..	Do. ..	21	..	..	..
		Benteak	..	..	157	..	157	..	Do. ..	157	..	..	..
		Karimardu ..	..	..	19	..	19	..	Do. ..	19	..	..	..
		Erul	..	..	12	..	12	..	Do. ..	12	..	..	..
		Total ..	..	..	437	..	437	..	....	437	..	..	..
	Pokod forests.	Teak	..	..	44	..	44	..	Taken to forest depot.	44	..	..	..
		Blackwood ..	..	..	87	..	87	..	Do. ..	87	..	..	..
		Benteak	..	..	85	..	85	..	Do. ..	85	..	..	..
		Karimardu ..	..	..	27	..	27	..	Do. ..	27	..	..	..
		Total ..	..	..	243	..	243	..	....	243	..	..	..
	Panangod forest clearings.	Teak logs.. ..	..	..	29	..	29	..	Taken to forest depôt..	29	..	..	..
		Teak poles ..	..	..	82	..	82	..	Do. ..	82	..	..	..
		Blackwood logs ..	..	..	3	..	3	..	Do. ..	3	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement.		Collected during year.		= Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Malabar (Nilambúr)—*cont.*	Panangod forest clearings—*cont.*	Blackwood poles ..	..	..	No. 2	..	No. 2	..	Taken to forest depot.	No. 2	..	..	..
		Benteak logs ..	..	..	179	..	179	..	Do. ..	179	..	..	..
		Benteak poles ..	..	..	7	..	7	..	Do. ..	7	..	..	..
		Karimardu logs ..	..	..	14	..	14	..	Do. ..	14	..	..	..
		Karimardu poles ..	..	..	13	..	13	..	Do. ..	13	..	..	..
		Total .. Logs ..	..	..	225	..	225	..	....	225	..	..	..
		Total .. Poles ..	..	..	104	..	104	..	....	104			
	Arimbrakuta forest selection felling.	Erul	..	..	19	..	19	..	Taken to Kallai depôt.	19	..	..	..
		Miscellaneous timbers.	..	..	1	..	1	..	Do. ..	1	..	..	..
		Total ..	..	..	20	..	20	..	..	20	..	..	..
	Panangod plantation.	Sapan dye wood ..	..	..	9¾ candies.	..	9¾ candies	..	..	..	..	9¾ candies.	..
									(1) Taken to Kallai depôt.	No. 52,657			
									(2) Previous year's drift stored on river bank and now taken to depôt.	66			
		Saplings	No. 7,106	..	No. 59,090	..	No. 66,196	..	(3) Written off on account of error in collection figures being double entry.	213	..	No. 13,124	..
									(4) Removals of last year to depôt included in No. 70, but omitted in this form.	136			
	Teak plantations.								Taken to Kallai sale depôt with timber sapling rafts.	20,286			
									Sold in Nilambúr river.	1,655			
		Bamboos	..	..	24,813	..	24,813	..	Used up departmentally.	1,035	..	327	..
									Rejected being useless.	1,458			
									Lost in transit ..	52			
		Karyas	..	..	2,775	..	2,775	..	Taken to Kallai sale depôt.	2,775	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
			No.	C. ft.	No.	C. ft.	No.	C. ft.		No.	C. ft.	No.	C. ft.
South Canara.	Kandapur range.	Blackwood ..	111	1,923	*1	..	112	1,923	Found deficient on re-measurement.	..	86¼	107	1,776
									Sold	5	60¾		
		Vengai	2	79	..	..	2	79	..	..	..	2	79
		Miscellaneous ..	543	15,163¾	*4	165½	547	15,329¼	Found deficient on re-measurement.	5	91	386	11,426
									Sold	†156	3,812¼		
	Udipi range ..	Miscellaneous ..	51	1,525	..	..	51	1,525	.. ..	..	..	51	1,525
	Uppinangudi range.	Teak	8	179	6	61	14	240	Do.	‡14	240	..	..
		Blackwood or rosewood.	39	643	32	564·5	71	1,207·5	Sent to Mangalore depôt.	§56	918·5	15	289
		Vengai	19	409	8	222·9	27	631·9	Do. ..	§23	497·5	4	134·4
		Miscellaneous ..	231	5,153¼	315	8,210¾	546	13,364	Sold	2	50	135	4,468¼
									Sent to depôt ..	§409	8,820·4		
									Found deficient on remeasurement.	..	25·2		
	Kásaragód ..	Teak poles ..	183	345	..	..	183	345	Sold	183	345	..	..
	Uppinangadi ..	Top pieces of trees felled by the timber contractor.	..	..	14	..	14	..	Do.	14	..	..	..
					Tons. lb.		Tons. lb.			Tons. lb.			
	Kandapur ..	Firewood ..	..	..	8—1,536	..	8—1,536	..	Do.	8—1,536	..	..	..
	Mangalore ..	Do. ..	..	..	27—809	..	27—809	..	Do.	27—809	..	..	..
		Casuarina firewood.	..	..	113 poles.	..	113 poles.	..	..	..	..	113 poles.	..
					Tons. lb.		Tons. lb.					Tons. lb.	
	Uppinangadi.	Charcoal	..	..	1—700	..	1—700	..	..	..	..	1—700	..
		Bark of Terminalia tomentosa.	..	..	840	..	0—840	..	..	..	..	840	..
		Miscellaneous minor produce.	..	..	239—2,091½	..	239—2,091½	..	Do.	239—2.091½	..	..	..
					No.		No.			No.			
	Confiscated drift and waif wood.	Bamboos ..	..	..	10	..	10	..	Do.	10	..	..	..
					Tons. lb.		Tons. lb.			Tons. lb.			
		Firewood ..	..	..	2—1,587	..	2—1,587	..	Do.	2—1,587	..	..	..
					No.		No.			No.			
					160	..	160	..		160			
		Miscellaneous timbers.	..	..	271	..	271	..	Do.	271	..	..	..

* Result of checking.

† Of these 3 logs, 76 cubic feet, were sold in March 1886, but not shown in form No. 69 for 1885-86.

‡ Of these 8 logs, 179 cubic feet, were sold in March 1886, but not shown in form No. 69 for 1885-86

§ Of these, Rosewood 1 log 11¼ cubic feet, Vengai 2 logs 39 cubic feet Miscellaneous, 32 logs 760 cubic feet were received in the depôt in 1885-86, but not shown as such in form No. 69 for 1885-86.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
						Grand Total.							
		Red sanders ..	..	..	Tons. lb. 50 0	..	Tons. lb. 50 0	..	To depot	Tons. lb. 50 0	..	..	..
		Junglewood ..	..	..	..	C. ft. 100	..	C. ft. 100	Sold	..	C. ft. 100	..	..
		Vengai	78	987	561 0	2,843½ and 229 Sq. feet.	639 9	3,830½ and 229 Sq. feet.	Do.	603 0	2,720¾	12	541½ and 229 Sq. ft.
									Otherwise	3 0	110		
									To depot	21 0	458½		
		Sandalwood ..	..	..	10 1,304	..	10 1,304	..	Do.	10 1,304	..	..	..
		Teakwood ..	349	38,586	No. 889	105,796	No. 1,238	144,382	Do.	No. 598	9,600	443	117,799
									Sold	189	14,160		
									Otherwise disposed of.	8	2,823		
		Teak poles and pieces.	870	..	7,720	..	8,590	..	Sold	8,207	..	..	..
									To depot	383			
		Bamboos	19,977	..	39,802 22½ cart loads	..	59,779 22½ cart loads	..	Sold	22,909	..	327	..
									Depot	33,998			
									Otherwise disposed of.	2,545			
									Sold	20½ cart loads	..	..	..
									Otherwise disposed of.	2 cart loads.			
		Blackwood or rosewood.	150	3,824	Tons. 41	19,612¾	Tons. 191	23,436¼	Sold	13	7,778¾	122	14,049
									Otherwise disposed of.	1	701¼		
									To depot	55	907		
					No. 113	..	No. 113	..	Do.	113	..	..	..
		Miscellaneous timbers.	1,889	22,816¾	15,623	37,435¼	17,512	60,252½	Sold	9,169	24,207¾	2,052	20,465¼
									To depot	5,801	14,453¾		
									Otherwise disposed of.	490	1,125½		
		Miscellaneous logs and poles.	..	..	Tons. lb. 167	..	Tons. lb. 167	..	To depot	165	..	..	..
									Sold	2			
									Do.	376			
					5,013	..	5,013	..	To depot	4,632	..	..	..
									Otherwise disposed of.	5			
		Charcoal.. ..	..	..	3-1,820	..	3-1,820	..	Sold	2 1,120	..	1	700
			Tons. lbs.						Do.	10,665	761		
		Firewood ..	894 931	..	12,058-1,986	..	12,953-677	..	To depot	1,511	1,863	770	1,913
									Otherwise disposed of.	5	620		
		Do.	..	..	No. 277	..	No. 277	..	Sold	No. 164	..	No. 113	..
		Miscellaneous minor produce.	0 55	..	Tons. lb. 381-1,390½	..	Tons. lb. 381-1,445½	..	Do.	356	1,203½	..	910
									To depot	24	1,563		
									Otherwise disposed of.	0 9	..		

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued*.

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
						Grand Total—cont.							
			No.						Sold	277,508			
					409,833	..	416,939	..	To depôt	125,892	..	13,124	..
									Otherwise disposed of.	415			
		Miscellaneous minor produce.	7,106	..	115¾ measure	..	115¾ measure	..	Sold	115¾ measure	..	..	..
					4 bundles.	..	4 bundles.	..	To depôt	4 bundles.	..	..	..
					9¾ candies.	..	9¾ candies.	..	....	..	..	9¾ candies.	..
						Confiscated drift and waif wood.							
						C. ft.		C. ft.			C. ft.		
		Junglewood ..	..	..	..	1,879	..	1,879	Sold	..	1,879	..	..
					lb.		lb.			lb.			
		Sandalwood ..	..	..	284	..	284	..	Do.	284	..	..	..
						C. ft.		C. ft.			C. ft.		
		Teak	..	..	..	1	..	1	Do.	..	1	..	..
		Vengai	..	..	..	740	..	740	Do.	..	740	..	..
					No.		No.			No.			
		Do. poles ..	..	..	4	..	4	..	Do.	4	..	..	..
		Miscellaneous timber.	..	..	..	1,843	..	1,843	Do.	..	1,827	..	..
									To depot	..	16		
		Do. ..	..	..	507	..	507	..	Sold	507	..	..	..
					1 heap.	..	1 heap.	..	Do.	1 heap.	..	..	..
					Tons. lb.		Tons. lb.			Tons. lb.			
					6 —476	..	6 —476	..	Do.	5 —812	..	..	..
									To depot	0—1,344			
									Otherwise disposed of.	0 —560			
		Bamboos	..	..	No.		No.			No.			
					59	..	59	..	Sold	59	..	..	..
					Tons. lb.		Tons. lb.			Tons. lb.			
									Do.	162 —2,085			
		Firewood ..	..	..	168 —641	..	168 —641	..	To depot	5 —12	..	..	..
									Otherwise disposed of.	0 —784			
		Charcoal	..	..	19—1,736	..	19—1,736	..	Sold	19—1,288	..	..	..
									Otherwise disposed of.	0 —448			
					59 —944	..	59 —944	..	Sold	59 —944	..	..	..
					No.		No.			No.			
		Miscellaneous minor produce.	..	..	932	..	932	..	Do.	922	..	..	..
									Otherwise disposed of.	6	..	..	..
									To depot	4	..	..	..
					14 bundles.	..	14 bundles.	..	Sold	14 bundles.	..	..	..

Abstract of Form No. 69.

District.	Teak wood.	Vengai.	Blackwood.	Junglewood.	Red sanders.	Sandalwood.	Miscellaneous wood.	Firewood.	Bamboos.	Minor produce.	Charcoal.
Chingleput	C. ft. ..	C. ft. ..	C. ft. ..	C. ft. 100	Tons. 50	Tons. lb. ..	.. Tons. 167	Tons. lb. 1,440—135	.. No.	Tons. lb. 107—448	Tons. lb. ..
North Arcot	..	..	..	..	..	6—430	C. ft. 409 No. 1	959 237 No. 164	1,201 Tons. lb. 2 336	3 772 No. 27,700	0 168
South Arcot	72	1,648—10	..	..	..	2—814½	C. ft. 5,727 No. 29	Tons. lb. 1,776—2,008	No. 69 lbs. 280	Tons. lb. 56—652⅝ No. 2,47,292 14 bundles 11 measures.	4—224
Salem	..	..	..	682	..	1—2,219½	C. ft. 1,652½ No. 187	129—1,008	Tons. lb. 1—1,260 No. 13,712	Tons. lb. 1—1,344 No. 1,993	10—952
Trichinopoly	..	..	..	..	..	..	55 + 16	4,213—1,285	56	4 bundles.	2—1,120
Tanjore	..	..	..	..	..	..	..	..	..	..	..
North Coimbatore	No. 4	..	..	..	..	lb. 364	C. ft. 886	6—12	2—224	No. 24 Tons. lb. 0—84	..
South Coimbatore	23,397	..	..	160	..	..	No. 23 1 heap	20—1,680	..	24—2,080 No. 73,236 104¾	..
Madura	1	C. ft. 1,461 and Sq. ft. 229	55	365	..	..	C. ft. 569 No. 2	265—1,563	0—616	Tons. lb. 1—1,904	0—336
Tinnevelly	No. 1,113	15	..	672	..	..	C. ft. 10,014 No. 1,614	59—1,295	22½ cart loads.	5—560 No. 1,430	5—56
Malabar (Wynaad and Palghát) ..	C. ft. 82,266 No. 6,224	236	18,993	..	..	..	C. ft. 11,645	3,317—672	..	Tons. lb. 0—518¾	..
Malabar (Nilambúr)	383 logs and poles.	..	No. 113 logs	..	..	..	No. 3,308 logs and poles.	..	No. 24,813	No. 59,090 9¾ candies.	..
South Canara	C. ft. 61	C. ft. 222¾	C. ft. 564½	..	..	..	C. ft. 8,376¼ No. 285	38—1,692 No. 273	10	Tons. lb. 240—691½	1—700
Total ..	C. ft. 105,797 66,810 logs and saplings.	C. ft. 3,583½ and Sq. ft. 229	C. ft. 19,612½ No. 113 logs.	C. ft. 1,979	Tons. 50	Tons lb. 10—1,588	C. ft. 39,278¾ Tons. 167 No. 5,520 one heap.	Tons. lbs. 12,227 387 No. 437	Tons. lb. 6 476 22½ cart loads No. 39,861	No. 351,672 115⅝ measures. 9¾ candies. 18 bundles. Tons. lb. 441—95	23—1,316

ANNUAL FORM No. 70.

Forest Department, Madras, Southern Circle.

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87.

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1886.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Chingleput.	..	Kambakam.	Red sanders roots.	..	..	..	Tons. lb. 50 0	..	Tons. lb. 50 0	..	Sold	Tons. lb. 50 0	..	..	..	
			Gall-nuts ..	..	..	..	2 448	..	2 448	..	Do.	2 448	..	..	..	
			Total ..	..	..	..	52 448	..	52 448	..	..	52 448	..	..	..	
North Arcot.	..	Mamandur depôt.	Redwood roots and stumps.	Tons. lb. ..	..	Mamandur forest.	Tons. lb. 165 0	..	Tons. lb. 165 0	..	Sold	Tons. lb. 150 0	..	Tons. lb. 15 0	..	
		Vellore jail depot.	Fuel	160 1,656	..	Butur tank bed, Amerdi and Tellai forests.	237 1,357	..	398 773	..	Sold to jail and manufactory.	206 2,065	..	191 948	..	
		Vellore sandal depot.	Sandalwood and roots.	11 812	..	Javadi hills.	6 430	..	17 1,242	..	Sold	11 812	..	6 430	..	
			Total ..	172 228	..	..	408 1,787	..	580 2,015	..	..	368 657	..	212 1,378	..	
South Arcot.	I Range.	Trinomalai.	Teak fellces ..	..	..	Forests ..	328	72 0 0	328	72 0 0	Sold	328	72 0 0	..	..	
			Miscellaneous timber.	135	471 9	..	7	25 7	142	497 4	Removed to Tindivanam depot.	42	150 5	..	..	
											Sold	100	346 11	..	..	
			Firewood ..	..	..	Tippakadu.	11 1,680	..	11 1,680	..	Do.	Tons. lb. 11 1,680	..	..	..	
			Sandalwood billets.	0 805	..	Chengam ..	2 366½	..	2 1,171½	..	Do.	0 791½	..	Tons. lb. 2 222	..	
											Taken for specimen.	0 158				
			Sandalwood roots and shavings.	0 56	..	Do. ..	0 448	..	0 504	..	Sold	0 504	..	..	..	
			Miscellaneous ..	0 39	..	Do. ..	1 91½	..	1 130½	..	Do.	0 119½	..	1 11	..	
	II Range.	Tindivanam.	Miscellaneous timber.	..	..	Trinomalai depot.	0 42	150 5	0 42	150 5	Do.	0 42	150 5	..	..	
	IV Range.	Cuddalore head quarter's office.	Sandalwood billet.	0 917	..	..	..	..	0 917	..	Do.	0 504½	..	0 412½	..	
Salem ..	..	Salem ..	Miscellaneous timber.	23	116 1 8	..	..	..	23	116 1 8	Sold	23	116 1 8	..	..	
		Tirupatur and Pennagaram.	Do. ..	50	161 5 1	..	..	..	50	161 5 1	Do.	50	161 5 1	..	..	
			Vengai ..	22	69 10 7	..	..	..	22	69 10 7	Do.	19	64 0 5	3	5 10 2	
			Sandalwood ..	..	..	Forests ..	lb. 252	..	lb. 252	..	Do.	lb. 252	..	..	..	
		Pennagaram.	Miscellaneous timber.	38	55 3 10	..	2	8 0 0	40	63 3 10	Do.	19	37 11 0	21	25 4 10	
			Sandalwood ..	Ton. lb. 1 448	..	..	lb. 140	..	Ton. lb. 1 588	..	Do.	Ton. lb. 1 224	..	lb. 364	..	
			Casuarina ..	..	..	Forests ..	4	16 0 0	4	16 0 0	Sold and supplied to Remount depot	4	16 0 0	..	..	
		Denkanikóta.	Timber, 1st, 2nd and 3rd classes.	..	..	..	1,161	1,455 11 20	1,161	1,455 11 20	Do. ..	1,161	1,455 11 20	..	..	
			Miscellaneous ..	..	..	..	102	111 5 0	102	111 5 0	Do. ..	102	111 5 0	..	..	
			Bamboos ..	..	..	..	1,512 thick. 12,200 small.	..	1,512 12,200	..	Sold ..	1,512 thick. 12,200 small.	..	..	..	
			Sandalwood ..	lb. 2,089	..	..	Ton. lb. 1 1,683½	..	Tons. lb. 2 1,533	..	Do.	lb. 462	..	Tons. lb. 2 1,071	..	
Trichinopoly.	..	Trichinopoly.	Casuarina poles	No. 29	..	..	..	..	No. 29	..	Sold	No. 29	..	..	..	
			Firewood ..	..	..	..	Tons. lb. 327 2,016	..	Tons. lb. 327 2,016	..	Do.	Tons. lb. 186 672	..	Tons. lb. 141 1,344	..	
			Acacia leucophlœa bark.	..	..	Kulitalai ..	4 bundles.	..	4 bundles.	..	Do.	4 bundles.	..	..	..	
		Tiruvadi ..	Firewood ..	Tons. lb. 54 473	..	..	Tons. lb. 303 1,344	..	Tons. lb. 357 1,817	..	Do.	Tons. lb. 326 2,218	..	Tons. lb. 30 1,839	..	
		Kumbakónam.	Do. ..	23 1,568	..	..	392 1,631	..	416 959	..	Do.	373 1,919	..	39 1,504	..	
											Struck off † ..	2 2,016				

* Found in excess in reweighing.

† Owing to an error in calculation.

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*continued.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1886.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet	
Tanjore ..	..	..	....	..	..	..	..	..	..	..	....	..	..	..	..	
North Coimbatore.	..	Satyamangalam.	Sandalwood ..	Mds. of 28 lb. 71¼	..	Satyamangalam forests.	Mds. 9	..	Mds. 80¼	..	Wastage in clipping.	Mds. 17	..	Mds. 63¼	..	Chipped { Wood. 39 19 / Roots. 22 16 ; Rough .. 1 0 ; Total .. 63 7
	..	Kollegál ..	Do. ..	..	..	Ponachi ..	4	..	4	..	....	..	..	4	..	
	..	..	Teak logs ..	9	40 6 0	..	..	..	9	40 6 0	{ Used departmentally. / Sold	1 / 8	3 0 9 / 37 5 3	..	..	
	..	Confiscation of the previous year.	Do. saplings ..	No. 26	..	..	..	..	No. 26	..	Do.	No. 26	..	..	..	
			Miscellaneous ..	,, 6	..	..	..	..	6	..	Do.	,, 6	..	..	..	
			Firewood ..	..	..	Kollegal ..	Tons. Cwt. 5 12	..	Tons. Cwt. 5 12	..	Do.	Tons. Cwt. 5 12	..	..	..	
			Bamboos ..	..	..	Do. ..	0 12	..	0 12	..	Do.	0 12	..	..	..	
			Wodder carts ..	..	..	Do. ..	No. 4	..	No. 4	..	Do.	No. 4	..	..	..	
	..	Bhavâni ..	Miscellaneous timber.	..	..	Bhavani forests.	..	16	..	16	Do.	..	16	..	..	
			Teakwood ..	308	6,514	Vellarugu Adivaram.	121	3,968	429	10,482	{ Difference in measurement. / Sold and supplied. / Used departmentally.	.. / 309 / 2	461 / 6,443 / 32	118	3,546	
	..	Coimbatore.	Rosewood ..	25	548	..	..	..	25	548	Sold	19	385	6	163	
			Junglewood ..	3	78	..	..	..	3	78	{ Do. .. .. / Used by department.	1 / 2	27 / 51	..	..	
South Coimbatore.	..	Anamalai ..	Rosewood ..	247	3,793	..	..	..	247	3,793	{ Sold .. .. / Used departmentally.	16 / 87	144 / 1,510	144	2,139	
	..	Vellarugu Adivaram.	Teakwood ..	81	2,450	Forest ..	270	9,528	351	11,978	Carted to Coimbatore depôt.	121	3,968	230	8,010	
	..	Coimbatore and Anamalai depôts.	Honey ..	..	..	No. I & III Ranges.	Mds. 104¾	..	Mds. 104¾	..	Sold	Mds. 104¾	..	..	..	
			Rattans ..	..	..	..	No. 73,235	..	No. 73,235	..	Do.	No. 73,235	..	..	..	
			Other minor produce.	..	..	..	52,704 lb.	..	52,704 lb.	..	Do.	52,704 lb.	..	..	..	
Madura ..	..	{ Kodaikánal firewood depôt.	Firewood ..	Tons. lb. 106	lb. 1,143	{ Kodaikanal plantations and sholas.	Tons. lb. 238 555	..	Tons. lb. 344 1,698	..	{ Sold .. .. / Wastage .. / Overweight in previous year's account now deducted.	Tons. lb. 271 1,460 / 43 1,655 / 0 858	..	Tons. lb. 28 2,205	..	
Tinnevelly ..	..	Ambâsamudram.	{ Miscellaneous logs and planks.	505	1,110	Papanasam.	4,056	4,395	4,561	5,501	{ Used departmentally. / Sold	98 / 4,374	169 / 5,282	89	54	
			Miscellaneous pieces.	..	..	Do. ..	1,324	..	1,324	..	Do.	1,169	..	155	..	
			Tanikoi ..	lb. 687	..	..	..	..	lb. 687	..	Wastage ..	lb. 687	..	..	..	
Malabar (Wynaad and Pálghat).	..	..	....	..	..	..	..	..	..	..	....	..	..	..	..	
			Selection Fellings.													
Malabar (Nilambúr).	..	Panagod Forest depôt.	Teak logs ..	..	..	Forest ..	228	..	228	..	....	..	..	228	..	
			Blackwood ..	..	..	Do. ..	21	..	21	..	....	..	..	21	..	
			Benteak ..	..	..	Do. ..	157	..	157	..	....	..	..	157	..	
			Karimamdu ..	..	..	Do. ..	19	..	19	..	....	..	..	19	..	

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*continued.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1886.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
		Panagod Forest depôt.	Erul ..	..	..	..	12	..	12	..	..	..	..	12	..	
			Total ..	..	..	..	437	..	437	..	..	..	..	437	..	
		Pokod Forest depôt.	Teak ..	..	..	..	44	..	44	..	..	..	..	44	..	
			Blackwood ..	..	..	..	87	..	87	..	..	..	..	87	..	
			Benteak ..	..	..	..	85	..	85	..	..	..	..	85	..	
			Karimamdu ..	..	..	..	27	..	27	..	..	..	..	27	..	
			Total ..	..	..	..	243	..	243	..	..	..	..	243	..	
		Kallai sale depôt.	Erul ..	..	..	Arimbrakuta river bank.	19	..	19	..	..	..	..	19	..	
			Miscellaneous ..	..	..	..	1	..	1	..	..	..	..	1	..	
			Total ..	..	..	..	20	..	20	..	..	..	..	20	..	
Malabar Nilambúr—*cont.*	..		*Clearings.*													
		Panagod Forest depôt.	Teak logs ..	880	..	Panagod ..	29	6,123	909	6,123	Sold	739 73	6,123	97	..	
			Do. poles ..	..	..	..	82	..	82	..	Do.	..	..	82	..	
			Blackwood logs.	38	403	..	3	..	41	403	Do.	38	403	3	..	
			Do. poles.	..	..	..	2	..	2	..	Do.	..	..	2	..	
			Benteak logs ..	370	27,827	..	179	..	549	..	Do.	370	5,939	179	..	
			Do. poles ..	..			7		7		Do.	..	..	7	..	
			Karimamdu logs.	580			14		694	..	Do.	580	8,239	14	..	
			Do. poles.	..			13		13		Do.	..	..	13	..	
			Miscellaneous logs.	722			..		722		Do.	651	13,649	..	..	
											Used up ..	69				
											Rejected ..	2				
			Total ..	Logs 2,590 Poles ..	..	..	225 104	..	2,815 104	..	..	2,522	34,353	293 104	..	
			Thinnings. Teak Saplings.													
		Kallai depôt.	Superior large..	3	..	..	3,111	2,903	3,114	2,903	Sold	285	2,903 0 11	* 2,829	..	
			Do. small.	..	..	..	2,709	..	2,709	..	Do.	..	..	2,709	..	
			1st class ..	1	..	..	3,713	..	3,714	..	Do.	..	..	3,714	..	
			2nd do. ..	2	..	..	5,780	..	5,782	..	Do.	..	..	5,782	..	
			3rd do. ..	10	..	..	8,849	..	8,859	..	Do.	..	..	8,859	..	
			4th do. ..	49	..	..	15,843	..	15,892	..	Do.	..	..	15,892	..	
			5th do. ..	36	..	..	10,143	..	10,179	..	Do.	..	..	10,179	..	
			6th do. ..	7	..	..	898	..	905	..	Do.	..	..	905	..	
			7th do. ..	..	..	..	1,129	..	1,129	..	Do.	..	..	1,129	..	
			8th do. ..	11	..	..	548	..	559	..	Do.	..	..	559	..	
			Total ..	119	..	..	52,723	2,903	52,842	2,903	..	285	2,903 0 11	52,557	..	
			Bamboos whole.	..	..	Sapling timber rafts.	19,893	..	19,893	..	Sold	12,500	..	7,393	..	
			Do. pieces.	..	..	Do.	393	..	393	..	Do.	..	..	393	..	
				..	..	..	20,286	..	20,286	..	..	12,500	..	7,786	..	
			Karya ..	..	..	Sapling timber rafts.	2,775	..	2,775	..	..	..	..	2,775	..	
South Canara.	..	..	Teak ..	33	666½	Increase in quantity from doing away with fractions.	..	5	33	671½	Sold	33	670½			
											Decrease on revised measurement according to Hoppus measurer.	..	½	..	..	
											Decrease from omission of fractions.	..	½			

* Of these 26 are logs.

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*continued.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1886.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
South Canara—*cont.*	..	..	Blackwood ..	3	35½	Increase in quantity from doing away with fractions.	..	5½	58	948¾	Sold	35	518½	..	..	
											Erroneous double entry not traceable.	1	11¼			
						Received from Uppenangadi range.	55	907¼			Decrease	..	¾			
											Decrease from omission of fractions.	..	1¼			
			Miscellaneous timber.	75	1,557¼	Found lying in the depôt unregistered.	1	10	474	10,096¾	Sold	396	8,308	72	1,666	
						Increase from doing away with fractions.	..	10			Decrease from omission of fractions.	..	1¾			
						Received from Uppenangadi range.	398	8,519			Decrease on revised measurement according to Hoppus measurer.	..	6¾			
											Erroneous double entry.	6	112¼			
											Untraceable decrease.	..	1¾			
			Total ..	111	2,259	..	454	9,456¾	565	11,715¾	..	471	9,632¾	94	2,083	

Abstract

							Tons.		Tons.	lb.		Tons.				
			Redsanders ..	..	..	..	50	..	50	..	Sold	50	..	..	..	
			Sandalwood Roots and billets.	15 402½	..	..	10	1,444	25	1,846½	Do.	13	1,310	11 2,142½	..	
											Otherwise disposed of.	..	634			
			Teak logs and poles.	1,314	9,670¾	..	3,859	22,599	5,173	32,269¾	Sold	1,775	16,248¾	3,274	11,556	
											Otherwise disposed of.	124	4,465			
				No.												
			Teak saplings..	142	..	..	49,966	..	50,108	..	Sold	285	..	49,823	..	
			Blackwood or rosewood.	313	4,779½	..	168	912¾	481	5,692¼	Do.	108	1,450½	285	2,719	
											Otherwise disposed of.	88	1,523			
			Vengai ..	22	69 10 7	..	..	..	22	69 10 7	Sold	19	64 0 5	3	5 10 2	
											Do.	1	27			
			Junglewood ..	3	78	..	..	..	3	78	Otherwise disposed of.	2	51	..	..	
			Miscellaneous timbers.	2,498	29,896¾	..	5,940	15,783½	8,438	45,680	Sold	7,868	43,813	395	1,745	
											Otherwise disposed of.	175	122¼			
															No.	
			Miscellaneous logs and poles, &c.	6	..	..	4,419 Tons.	..	4,425 Tons.	..	Sold	1,175 Tons.	..	.. Tons.	3,250	
							165	..	165	..	Do.	150	..	15	..	
				Tons.	lb.						Do.	1,383	158	432	1,120	
			Firewood ..	345	360	..	1,517 967	..	1,862	1,327	Otherwise disposed of.	47	49			
			Bamboo, whole and split.	..	..	..	No. 33,998	..	No. 33,998	..	Sold	26,212	..	7,786	..	
							Cwt. 12	..	Cwt. 12	..	Do.	Cwt. 12	..	..	..	
					lb.						Do.	25 1,751½	..	Ton. lb.		
			Minor produce.	..	726	..	26 1,723½	..	27 209½	..	Otherwise disposed of.	0 687	..	1 11	..	
							No.									
							73,243	..	73,243	..	Sold	73,243	..	..	..	
							4 bundles.	..	4 bundles.	..	Do.	4 bundles.	..	..	..	
			Do. ..	..	..	..	Measures. 104¾	..	Measures. 104¾	..	Do.	Measures. 104¾	..	..	..	
							No.		No.			No.				
							4	..	4	..	Do.	4	..	..	..	

ANNUAL FORM No. 71.

Forest Department, Madras, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.			RS. A. P.	RS. A. P.	RS. A. P.			
Chingleput	Tiruvallúr ..	Kambakam depôt.	I (*a*).	Red sanders roots ..	Tons. 50	..	16 0 0 per ton.	800 0 0	800 0 0	..	..	
				Local sales.								
	..	Kambakam hills..	I (*a*).	Junglewood ..	..	100	2 8 0 per 40 c. ft.	6 4 0	6 4 0	..	..	
	..	Maiyur, &c., plantations.	I (*a*).	Timber and fruit trees.	..	..	..	571 15 1	571 15 1	..	..	
				Total ..	..	..	..	..	1,378 3 1	..	..	
	..	Kambakam ..	I (*b*).	Fuel	Tons. 990	..	1 0 0 per ton.	990 0 0	990 0 0	..	..	
	..	Allikuli, &c., hills.	I (*e*).	Do.	,, 420	..	Do.	420 0 0	420 0 0	..	..	
				Sold from depôt								
	..	Kambakam ..	I (*e*).	Gall-nuts ..	,, 2	lb. 448	37 4 4 (about).	82 0 0	82 0 0	..	..	
				Local sales.								
	..	Allikuli, &c., hills.	I (*e*).	Avaram bark ..	,, 105	..	6 0 0 per ton.	630 0 0	630 0 0	..	..	
				Total ..	..	..	..	..	1,132 0 0	..	..	
	..	..	III.	Confiscated drift, &c.	..	..	..	95 12 11	95 12 11	..	..	
				Grand Total ..	..	..	..	..	3,596 0 0	..	..	
				Sold from depot.								
North Arcot.	..	Mamandúr depôt.	I (*a*).	Redwood roots and stumps.	Tons. 150	..	115 0 0 per ton.	2,250 0 0	1,500 0 0	..	..	
				Local sales.								
	..	Vellore sandalwood depôt.	Do.	Nagawood and branches.	3 cartloads.	..	2 0 0 per cartload.	6 0 0	6 0 0	..	..	
	..	..	Do.	Do. do. ..	1 do.	..	1 0 0 per cartload.	1 0 0	1 0 0	..	..	
	..	Mancodipuram ..	Do.	Karivelam tree ..	1 tree	..	0 8 0	0 8 0	0 8 0	..	..	
				Total ..	..	..	..	..	1,507 8 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued*.

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.	Tons. lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.			
North Arcot—*cont.*	..	Vellore Jail depot.	I (*b*)	Casuarina, jungle and babul wood.	157 1,151	..	3 6 0 per 1,000	1,190 12 5	1,190 12 5	..	..	
	..	..	Do.	Do. do. ..	49 914	..	3 4 0 per 1,000	359 10 10	340 12 10	..	..	
				Local sales.								
	..	Tiruvallam plantations.	Do.	Casuarina wood ..	933½ 0	..	5 8 0 per ton.	5,134 4 0	2,799 8 0	..	..	
	..	..	Do.	Casuarina branch wood.	233 2,053	..	3 0 0 per ton.	701 12 0	533 12 0	..	..	
	..	..	Do.	Casuarina trees ..	96 trees.	..	1 8 0 per tree.	144 0 0	9 0 0	..	..	
	..	..	Do.	Do. ..	16 trees.	..	1 0 0 per tree.	16 0 0	16 0 0	..	..	
	..	..	Do.	Casuarina branch wood.	Tons. 1½	..	2 0 0 per ton.	3 0 0	3 0 0	..	..	
	..	..	Do.	Do. ..	,, 8	..	Highest bid.	36 3 0	36 3 0	..	..	
	..	..	Do.	Inga dulcis ..	30 cartloads.	..	Do.	36 13 0	36 13 0	..	..	
	..	Balampet tope ..	Do.	Casuarina trees ..	16 trees.	..	Rs. 2 per tree.	32 0 0	32 0 0	..	..	
	..	..	Do.	Do. ..	12 ,,	..	Re. 1 per tree.	12 0 0	12 0 0	..	..	
	..	..	Do.	Casuarina branch wood.	Ton. 1	..	4 12 0 per ton.	4 12 0	4 12 0	..	..	
	..	..	Do.	Do. ..	6 cartloads.	..	Highest bid.	11 1 0	11 1 0	..	..	
	..	Virinjipuram ..	Do.	Casuarina poles ..	No. 24	..	Rs. 2 per pole.	48 0 0	48 0 0	..	..	
	..	..	Do.	Casuarina branch wood.	Ton. 1	..	5 4 0 per ton.	5 4 0	5 4 0	..	..	
	..	..	Do.	Do. ..	Tons. 3	..	4 0 0 per ton.	12 0 0	12 0 0	..	..	
	..	..	Do.	Do. ..	,, 6	..	3 0 0 per ton.	18 0 0	18 0 0	..	..	
	..	..	Do.	Do. ..	,, 19	..	2 8 0 per ton.	47 8 0	47 8 0	..	..	
	..	..	Do.	Do. ..	,, 4	..	1 4 0 per ton.	5 0 0	5 0 0	..	..	
	..	..	Do.	Do. ..	,, 1½	..	2 0 0 per ton.	3 0 0	3 0 0	..	..	
	..	..	Do.	Casuarina wood ..	,, ½	..	5 4 0 per ton.	2 10 0	2 10 0	..	..	
	..	..	Do.	Do. ..	,, 41½	..	2 8 0 per ton.	103 12 0	103 12 0	..	..	
	..	..	Do.	Do. ..	,, ½	..	5 8 0 per ton.	2 12 0	2 12 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or Locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic Feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Local sales—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
North Arcot—*cont.*	..	Gazulamandiyam.	I (*b*).	Casuarina branch wood.	Tons. 20	..	2 8 0 per ton.	50 0 0	50 0 0	..	..	
	..	Kilmennel ..	Do.	Do. ..	,, 6	..	3 0 0 per ton.	18 0 0	18 0 0	..	..	
				Total ..	..	..	..	..	5,341 8 3	..	..	Examiner's figure is Rs. 7,423-8-3. The difference is the outstanding of previous year.
				Local sales.								
	..	Tellai forests ..	I (*c*).	Large bamboos ..	No. 20	..	1 2 0 each.	22 8 0	22 8 0	..	..	
			Do.	Small do. ..	,, 1,181	..	0 1 6 each.	110 11 6	110 11 6	..	..	
				Total ..	..	..	..	..	133 3 6	..	..	
				Sold from depot.								
		Vellore sandalwood depôt.	I (*d*).	Sandalwood ..	lb. 33	..	4 0 0 per 28 lb.	4 11 5	4 11 5	..	..	
	..		Do.	Do. ..	,, 373	..	280 0 0 per ton.	46 10 0	46 10 0	..	..	
			Do.	Do. ..	Tons. lb. 11 406	..	400 0 0 per ton.	4,472 8 0	4,472 8 0	..	..	
			Do.	Do. ..	A heap.	..	Highest bid.	71 14 0	71 14 0	..	..	
				Total ..	..	..	..	..	4,595 11 5	..	..	
				Local sales.								
	..	Tiruvallam plantation.	I (*e*).	Casuarina plants ..	No. 16,600	..	5 0 0 per 1,000	83 0 0	83 0 0	..	..	
	..	Kilmennel ..	Do.	Do. ..	,, 1,100	..	Do.	5 8 0	5 8 0	..	..	
	..	..	Do.	Casuarina seed ..	lb. 100	..	1 0 0 per lb.	114 4 0	114 4 0	..	..	
	..	Vanivedu ..	Do.	Do. plants ..	No. 10,000	..	5 0 0 per 1,000	50 0 0	50 0 0	..	..	
				Total ..	..	..	..	..	252 12 0	..	..	
	..	..	III ..	Confiscated drift and waifwood.	..	..	..	234 3 3	234 3 3	..	..	
				Grand Total ..	..	..	..	..	12,064 14 5	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or Locality.	Budget sub-head.	Description of timber and other produce.	Number of quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.	No.	C. ft.	RS. A. P.	RS. A. P.	RS. A. P.			
South Arcot.	..	Tiruvannámalai.	I (*a*)	Teak felloes ..	328	72 0	1 7 5	105 10 0	105 10 0	328	..	
			Do.	Miscellaneous logs..	75	280 0	0 9 10	169 7 9	169 7 9	75	..	
			Do.	Do. poles.	25	66 11	0 9 1	38 1 3	38 1 3	25	..	
	..	Tindivanam ..	Do.	Eruvadi logs ..	8	31 5	0 12 7	24 11 3	24 11 3	8	..	
			Do.	Do. ..	1	3 10	Auction.	3 13 10	3 13 10	1	..	
			Do.	Miscellaneous logs..	25	89 3	0 10 4	57 7 6	57 7 6	25	..	
			Do.	Do. poles.	8	25 11	0 7 6	12 2 7	12 2 7	8	..	
				Sold from forests.								
	Tiruvannámalai.	Tiruvannámalai circle forest.	Do.	Vengai poles ..	1	0 8	0 7 6	0 5 0	0 5 0	1	..	
			Do.	Miscellaneous poles.	23	14 9	0 6 0	5 5 1	5 5 1	23	..	
			Do.	Vengai logs ..	29	105 5	0 10 3	67 2 2	67 2 2	29	..	
			Do.	Do. poles ..	240	633 8	0 8 0	316 13 4	316 13 4	240	..	
			Do.	Eruvadi logs ..	1	4 6	0 7 11	2 3 7	2 3 7	1	..	
	..	Chengam circle.	Do.	Do. poles ..	14	35 3	0 7 0	15 6 9	15 6 9	14	..	
			Do.	Karungali poles ..	7	7 7	0 7 0	3 2 8	3 2 8	7	..	
			Do.	Miscellaneous timber logs.	92	373 1	0 4 7	106 6 3	106 6 3	92	..	
			Do.	Do. poles.	841	1,883 8	0 4 8	539 12 1	539 12 1	841	..	
			Do.	Vengai logs ..	11	107 4	0 9 3	61 7 11	61 7 11	11	..	
			Do.	Do. poles ..	276	1,101 5	0 8 6	589 1 11	589 1 11	276	..	
			Do.	Eruvadi logs ..	1	4 11	0 7 11	2 6 11	2 6 11	1	..	
	..	Chekadi circle ..	Do.	Do. poles ..	24	70 1	0 7 10	34 6 6	34 6 6	24	..	
			Do.	Karungali logs ..	4	4 4	0 5 0	1 12 2	1 12 2	4	..	
			Do.	Miscellaneous timber logs.	24	112 6	0 5 0	33 7 2	33 7 2	24	..	
			Do.	Do. poles.	1,070	1,714 8	0 6 6	693 1 6	693 1 6	1,070	..	
	Tindivanam ..	Tindivanam forests	Do.	Casuarina poles ..	110	242 3	0 4 0	60 9 5	60 9 5	110	..	
	..	Villupuram ..	Do.	Miscellaneous timber poles.	22	24 0	0 2 8	4 0 0	4 0 0	22	..	
	..	Cuddalore ..	Do.	Casuarina poles ..	2,339	1,243 7	0 3 5	263 5 4	263 5 4	2,339	..	
	..	..	Do.	Jack tree ..	1	13 6	0 8 0	6 12 0	6 12 0	1	..	
	..	Tirukoilúr ..	Do.	Casuarina poles ..	12	10 11	..	2 11 10	2 11 10	12	..	
				Total ..	..	..	..	..	3,221 1 9	..	..	
				Sold from depôt.	Tons. lb.					TONS. LB.		
	..	Tiruvannámalai ..	I (*b*)	Firewood ..	11 1,680	..	Auction.	17 8 0	17 8 0	11 1,680	..	
				Sold from forests.								
	..	Tindivanam ..	Do.	Firewood ..	0 1,204	..	1 8 2	0 13 0	0 13 0	0 1,204	..	
	..	Villupuram ..	Do.	Babul poles ..	677 680	..	5 4 4	3,570 1 6	3,570 1 6	677 680	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number of quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests—cont.	Tons. lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Tons. lb.		
South Arcot—*cont.*	Tindivanam—*cont.*	Cuddalore ..	I (*b*)	Casuarina poles ..	129 2,050	..	3 15 1	513 0 2	513 0 2	129 2,050	..	
	..	Chidambaram ..	Do.	Mangrove, &c., poles.	547 600	..	4 4 3	2,332 12 4	2,332 12 4	547 600	..	
	..	Tirukoilúr ..	Do.	Firewood	23 672	..	3 5 4	77 10 6	77 10 6	23 672	..	
				Total ..	..	..	..	..	6,511 13 6	..	..	
				Sold from forests.								
	..	Villupuram ..	I (*c*)	Bamboos	No. 20	..	0 4 1	5 3 0	5 3 0	No. 20	..	
				Sold from depôt.	Tons. lb.					Tons. lb.	..	
	..	Tiruvannámalai ..	I (*d*)	Sandalwood billets ..	0 119½	..	400 0 0	21 5 5	21 5 5	0 119½	..	
	..	..	Do.	Do. do. ..	0 672	..	240 0 0	72 0 0	72 0 0	0 672	..	
	..	..	Do.	Do. roots ..	0 56	..	160 0 0	4 0 0	4 0 0	0 56	..	
	..	..	Do.	Do. shavings.	0 448	..	5 0 0	1 0 0	1 0 0	0 448	..	
	..	Cuddalore ..	Do.	Do. billets ..	0 268½	..	280 0 0	33 9 0	33 9 0	0 268½	..	
	..	..	Do.	Do. do. ..	0 236	..	240 0 0	25 4 7	25 4 7	0 236	..	
				Total ..	..	..	..	..	157 3 0	..	..	
				Sold from depôt.	Tons. lb.					Tons. lb.		
	..	Tiruvannámalai ..	I (*e*)	Honey	0 106½	..	284 0 0	13 8 0	13 8 0	0 106½	..	
	..	..	Do.	Wax	0 13	..	886 10 8	5 2 4	5 2 4	0 13	..	
				Sold from forests.								
	..	I. Tiruvannámali, Chengam circle.	Do.	Gall-nuts	4 441	..	58 1 6	243 13 3	243 13 3	4 441	..	
	..	..	Do.	Honey	0 686	..	223 9 8	68 7 8	68 7 8	0 686	..	
	..	..	Do.	Wax	0 182	..	886 10 8	72 0 8	72 0 8	0 182	..	
	..	..	Do.	Sambram bark ..	0 843	..	Auction.	6 9 8	6 9 8	0 843	..	
	..	..	Do.	Tagarai seed ..	2 448	..	20 6 8	44 14 8	44 14 8	0 448	..	
	..	..	Do.	Nerpungan seed ..	0 672	..	17 8 0	5 4 0	5 4 0	0 672	..	
	..	Checkadi circle ..	Do.	Gall-nuts ..	0 2,100	..	51 10 8	48 7 0	48 7 0	0 2,100	..	
	..	Tindivanam ..	Do.	Gooseberry fruits ..	0 132	..	5 13 4	0 5 6	0 5 6	0 132	..	
	..	Cuddalore ..	Do.	Casuarina plantas.	No. 230,056	..	1 5 8 per 1,000	312 3 9	312 3 9	No. 230,056	..	
	..	..	Do.	Cashew-nuts ..	9 measures.	..	0 0 9	0 6 9	0 6 9	9 measures.	..	
	..	..	Do.	Kodukapali seeds ..	2 do.	..	0 2 9	0 5 6	0 5 6	2 do.	..	
	..	..	Do.	Grass	lb. 1,792	..	0 10 0	0 8 0	0 8 0	lb. 1,792	..	
	..	..	Do.	Christmas trees ..	No. 2	..	0 2 0	0 4 0	0 4 0	No. 2	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Arcot—*cont.*	Chidambaram ..	..	I (*e*)	Casuarina seedlings.	17,220 Tons. lb.	..	1 13 10 per 1,000	32 2 0	32 2 0	17,220 Tons. lb.	..	
	..	..	Do.	Honey	0 1	..	560 0 0	0 4 0	0 4 0	0 1	..	
	..	..	Do.	Pannikutti bark ..	0 7	..	60 0 0	0 3 0	0 3 0	0 7	..	
	..	..	Do.	Wax	0 $\frac{1}{8}$	..	466 10 8	0 0 5	0 0 5	0 $\frac{1}{8}$	..	
	Head-quarters office.	..	Do.	Do.	0 13	..	630 0 0	3 10 6	3 10 6	0 13	..	
				Total ..	..	..	..	..	858 8 8	..	..	
				Sold from forests.								
	..	..	III.	Confiscated drift and waifwood.	..	..	..	255 12 7	255 12 7	..	..	
				Grand Total ..	..	..	..	..	11,009 10 6	..	..	
				Sold from depôt.	No.							
	Salem ..	..	I (*a*).	Acha	14	62 0 4	Auction.	60 8 0	60 8 0	14	..	
	..	..	Do.	Sellavungi ..	9	51 1 4	Do.	39 0 0	39 0 0	9	..	
	Tirupatúr ..	..	Do.	Acha	49	160 0 9						
	..	..	Do.	Borasu	1	1 4 4	1 5 0	272 2 5	272 2 5	60	..	
	..	..	Do.	Vengai	10	45 11 2						
	Pennagaram ..	..	Do.	Acha logs ..	16	24 10 2	1 4 4	31 10 2	31 10 2	16	..	
	..	..	Do.	Vengai	9	18 1 3	1 4 4	23 0 5	23 0 5	9	..	
	..	..	Do.	Eruvadi	1	5 0 0	1 4 4	6 5 8	6 5 8	1	..	
	..	..	Do.	Miscellaneous logs ..	2	8 0 0	Auction.	7 6 0	7 6 0	2	..	
	Denkanikóta ..	..	Do.	Bilvam	30	102 5 0	1 0 0	102 6 8	102 6 8	30	..	
	..	..	Do.	Timber, 1st class ..	31	277 10 3	1 0 0	277 13 7	277 13 7	31	..	
Salem ..	..	..	Do.	Do. 2nd do. ..	666	505 5 9	0 12 0	379 1 9	379 1 9	666	..	
	..	..	Do.	Do. 3rd do. ..	464	672 8 8	0 11 0	462 7 10	462 7 10	464	..	
	..	..	Do.	Casuarina poles ..	4	16 0 0	4 0 0	16 0 0	16 0 0	4	..	
	..	..	Do.	Ploughs	36	6 0 0	0 2 0	4 8 0	4 8 0	36	..	
	..	..	Do.	Do. handles' ..	36	3 0 0	0 1 0	2 4 0	2 4 0	36	..	
				Total ..	..	..	..	..	1,684 10 6	..	..	
				Sold from forests.								
	Morur ..	..	I (*b*)	Engine fuel ..	Tons. 106	..	2 0 3	213 9 6	213 9 6	Tons. 106	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or Locality.	Budget sub-heads.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.	No.		Rs. A. P.	Rs. A. P.	Rs. A. P.			
Salem—*cont.*	Denkanikóta ..	..	I (*c*)	Thick bamboos ..	1,500	..	11 4 0 per 100	168 12 0	168 12 0	1,500	..	
	..	..	Do.	Do. ..	12	..	0 6 0	4 8 0	4 8 0	12	..	
	..	..	Do.	Small bamboos ..	200	..	1 12 0 per 100	3 8 0	3 8 0	200	..	
	..	..	Do.	Do. ..	12,000	..	1 8 0 per 100	180 0 0	180 0 0	12,000	..	
				Total ..	..	..	..	..	356 12 0	..	..	
				Sold from depot.	Tons. lb.					Tons. lb.		
	Tirupatúr ..	..	I (*d*)	Sandalwood ..	0 252	..	..	31 8 0	31 8 0	0 252	..	
	Pennagaram ..	..	Do.	Do. ..	1 224	..	2 8 0 per maund.	215 0 0	215 0 0	1 224	..	
	Denkanikóta ..	..	Do.	Do. ..	0 462	..	3 8 0 per maund / 2 8 0 per maund.	58 0 7	58 0 7	0 462	..	
				Total ..	..	..	..	..	304 8 7	..	..	
				Sold from forest.								
	Tirupatúr ..	..	I (*e*)	Guava fruits ..	1,100	..	0 1 0 per 100	0 11 0	0 11 0	1,100	..	
	..	..	III.	Confiscated drift and waifwood.	..	..	..	520 4 11	520 4 11	..	..	
				Grand Total ..	..	..	..	..	3,080 8 6	..	..	
				Sold from depot.	No.					No.		
Trichinopoly.	Trichinopoly ..	..	I (*a*)	Casuarina saplings..	29	..	0 1 0	1 13 0	1 13 0	29	..	
				Sold locally.								
	Elamanúr ..	..	Do.	Vagai	1	..	8 0 0	8 0 0	8 0 0	1	..	
	..	..	Do.	Marudai	1	..	3 8 0	3 8 0	3 8 0	1	..	
	..	..	Do.	Atti	1	..	1 0 0	1 0 0	1 0 0	1	..	
	Pettuvaitalai ..	..	Do.	Babul poles ..	4	..	1 0 0	4 0 0	4 0 0	4	..	
	Manatattai ..	..	Do.	Casuarina poles ..	3	..	1 0 0	3 0 0	3 0 0	3	..	
	..	..	Do.	Casuarina ..	6	..	3 0 0	18 0 0	18 0 0	6	..	
	Kalamanikam ..	..	Do.	Casuarina poles ..	6	..	1 0 0	6 0 0	6 0 0	6	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or Locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally—cont.	No.		Rs. A. P.	Rs. A. P.	Rs. A. P.	No.		
Trichino-poly—*cont.*	Kalamanikam *cont*	..	I (*a*)	Casuarina poles ..	7	..	0 12 0	5 4 0	5 4 0	7	..	
	..	..	Do.	Do.	6	..	0 8 0	3 0 0	3 0 0	6	..	
	..	..	Do.	Do.	11	..	0 4 0	2 12 0	2 12 0	11	..	
	..	..	Do.	Do.	25	..	0 7 $10\frac{2}{25}$	12 4 0	12 4 0	25	..	
				Total ..	..	..	..	..	68 9 0	..	..	
				Sold from depot.	Tons. lb.							
	Trichinopoly ..	..	I (*b*)	Firewood ..	151 1,120	..	2 8 0 per ton.	378 12 0	378 12 0	..	..	
	..	..	Do.	Do.	0 1,792	..	3 2 0	2 8 0	2 8 0	..	..	
	..	..	Do.	Do.	34 0	..	1 14 0	63 12 0	63 12 0	..	..	
	Tiruvádi ..	..	Do.	Do.	265 1,344	..	3 2 0	830 0 0	830 0 0	..	..	
	..	..	Do.	Casuarina poles ..	4 952	..	3 15 9	17 10 0	17 10 0	..	..	
	..	..	Do.	Do.	7 0	..	3 2 0	21 14 0	21 14 0	..	..	
	..	..	Do.	Do.	13 $2,38\frac{2}{3}$	..	..	58 8 0	58 8 0	..	..	
	..	..	Do.	Firewood ..	4 0	..	4 14 0	19 8 0	19 8 0	..	..	
	..	..	Do.	Do.	2 $1,194\frac{2}{3}$	..	4 10 $2\frac{10}{15}$	11 12 0	11 12 0	..	..	
	..	..	Do.	Do.	5 1,344	..	5 0 $8\frac{4}{7}$	28 4 0	28 4 0	..	..	
	..	..	Do	Do.	3 1,568	..	4 1 $11\frac{4}{37}$	15 4 0	15 4 0	..	..	
	..	..	Do.	Do.	3 504	..	4 1 $\frac{61}{129}$	13 2 0	13 2 0	..	..	
	..	..	Do.	Do.	2 1,232	..	4 0 $3\frac{30}{57}$	10 4 0	10 4 0	..	..	
	..	..	Do.	Do.	9 392	..	3 14 $1\frac{156}{367}$	35 10 0	35 10 0	..	..	
	..	..	Do.	Do.	3 280	..	4 8 $3\frac{21}{25}$	14 2 0	14 2 0	..	..	
	..	..	Do.	Do.	2 2,128	..	3 14 $4\frac{28}{59}$	11 8 0	11 8 0	..	..	
	Kumbakónam ..	..	Do.	Do.	97 448	..	4 6 0	425 4 0	425 4 0	..	..	
	..	..	Do.	Do.	165 896	..	3 12 0	620 4 0	620 4 0	..	..	
	..	..	Do.	Do.	107 0	..	3 2 0	334 6 0	334 6 0	..	..	
	..	..	Do.	Do.	3 1,955	..	10 10 $5\frac{147}{547}$	41 4 0	41 4 0	..	..	
	..	..	Do.	Do.	0 860	..	9 1 $10\frac{14}{43}$	3 8 0	3 8 0	..	..	
				Sold locally.								
	Elamanúr ..	..	Do.	Firewood ..	192 0	..	4 8 0	864 0 0	864 0 0	..	..	
	..	..	Do.	Do.	42 1,674	..	3 8 0	149 9 10	149 9 10	..	..	
	Pettuvoitalai ..	..	Do.	Do.	8 0	..	1 4 0	10 0 0	10 0 0	..	..	
	..	..	Do.	Do.	32 1,541	..	4 8 0	147 1 6	147 1 6	..	..	
	..	..	Do.	Do.	5 699	..	3 8 0	18 9 5	18 9 5	..	..	
	Manatattai ..	..	Do.	Do.	197 0	..	4 8 0	886 8 0	886 8 0	..	..	
	..	..	Do.	Do.	40 622	..	3 8 0	140 15 6	140 15 6	..	..	
	..	..	Do.	Do.	21 448	..	0 5 0	6 10 0	6 10 0	..	..	
	..	..	Do.	Do.	1 1,344	..	1 11 6	2 12 0	2 12 0	..	..	
	..	..	Do.	Do.	0 896	..	1 14 0	0 12 0	0 12 0	..	..	
	Lálápet ..	..	Do	Do.	398 0	..	4 8 0	1,791 0 0	1,791 0 0	..	..	
	..	..	Do.	Do.	92 0	..	3 8 0	322 0 0	322 0 0	..	..	
	..	..	Do.	Do.	70 0	..	0 8 0	35 0 0	35 0 0	..	..	
	Sittalavoi ..	..	Do	Do.	332 0	..	4 8 0	1,494 0 0	1,494 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold Locally—cont.	Tons. lb.		RS. A. P.	RS. A. P.	RS. A. P.			
Trichinopoly—*cont.*	Sittalavoi ..	..	I (*b*)	Firewood	65 0	..	3 8 0	227 8 0	227 8 0	..	..	
	..	..	Do.	Do.	162 0	..	0 8 0	81 0 0	81 0 0	..	..	
	Kattalai ..	..	Do.	Do.	135 121	..	4 8 0	607 11 10	607 11 10	..	..	
	..	..	Do.	Do.	39 2,119	..	3 8 0	139 12 11	139 12 11	..	..	
	..	..	Do.	Do.	40 0	..	0 8 0	20 0 0	20 0 0	..	..	
	Punganúr ..	..	Do.	Do.	100 0	..	3 12 0	375 0 0	375 0 0	..	..	
	..	..	Do.	Do.	9 448	..	2 8 0	23 0 0	23 0 0	..	..	
	..	..	Do.	Do.	109 0	..	0 8 0	54 8 0	54 8 0	..	..	
	..	..	Do.	Do.	6 896	..	1 9 0	10 0 0	10 0 0	..	..	
	..	..	Do.	Do.	6 0	..	2 3 0	13 2 0	13 2 0	..	..	
	Pungantangi ..	..	Do.	Do.	111 120	..	4 8 0	499 11 10	499 11 10	..	..	
	..	..	Do.	Do.	35 801½	..	3 8 0	123 12 0	123 12 0	..	..	
	..	..	Do.	Do.	1 1,792	..	3 2 0	5 10 0	5 10 0	..	..	
	..	..	Do.	Do.	0 1,792	..	0 11 3	0 9 0	0 9 0	..	..	
	Ambásamudram.	..	Do.	Do.	75 0	..	4 8 0	337 8 0	337 8 0	..	..	
	..	..	Do.	Do.	45 0	..	3 8 0	157 8 0	157 8 0	..	..	
	Vaiyalúr ..	..	Do.	Do.	438 1,278	..	4 8 0	1,973 9 1	1,973 9 1	..	..	
	..	..	Do.	Do.	260 1,246	..	3 8 0	911 15 2	911 15 2	..	..	
	..	..	Do.	Do.	19 448	..	1 9 0	30 0 0	30 0 0	..	..	
	..	..	Do.	Do.	0 1,792	..	1 11 6	1 6 0	1 6 0	..	..	
	Kattuvari ..	..	Do.	Do.	10 180	..	4 8 0	45 5 9	45 5 6	..	..	
	..	..	Do.	Do.	4 1,588	..	3 8 0	16 7 8	16 7 8	..	..	
	Tainimalai ..	..	Do.	Do.	2 0	..	2 8 0	5 0 0	5 0 0	..	..	
	Kolamanikam ..	..	Do.	Do.	0 1,792	..	2 0 6	1 10 0	1 10 0	..	..	
	Aramanaikurchi	..	Do.	Do.	0 448	..	1 14 0	0 6 0	0 6 0	..	..	
	Annagarampatti.	..	Do.	Do.	0 448	..	1 7 9	0 4 9	0 4 9	..	..	
	Valakurchi ..	..	Do.	Do.	0 1,792	..	1 10 3	1 5 0	1 5 0	..	..	
	Sinnavalayam ..	..	Do.	Charcoal	2 1,120	..	12 0 0	30 0 0	30 0 0	..	..	
				Total ..	..	..	..	..	14,519 9 0	..	..	Examiner's figure is Rs. 15,080-13-0. The difference is the outstanding of previous year.
				Sold locally.	No.							
	Kulitalai ..	..	I (*c*)	Bamboos	2	..	0 4 0	0 8 0	0 8 0	..	..	
	..	..	Do.	Do. thorns ..	6 bundles.	..	0 2 0	0 12 0	0 12 0	..	..	
	Manatattai ..	..	Do.	Bamboos	54	..	1 0 0 per 6	9 0 0	9 0 0	..	..	
				Total ..	..	..	..	..	10 4 0	..	..	
				Sold from depot.								
	Trichinopoly ..	..	I (*e*)	Acacia leucophlœa ..	4 bundles.	..	0 1 6 per bundle.	0 6 0	0 6 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.	Tons. lb.		RS. A. P.	RS. A. P.	RS. A. P.			
Trichinopoly—*cont.*	..	..	I (*e*)	Gall-nuts ..	2 160	..	49 7 8 23/29	102 8 0	102 8 0	..	..	
				Total ..	..	..	..	..	102 14 0	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	..	57 1 11	..	..	
				Grand Total ..	..	..	..	..	14,758 5 11	..	..	
Tanjore ..	Tiruturaipúndi.	..	III	Firewood, &c., confiscated drift and waifwood.	..	..	..	24 15 3	24 15 3	..	..	
				Sold from depot.								
North Coimbatore	Kollegál and Bhaváni.	..	I (*a*)	Teak logs ..	No. 8	37 5 3	..	24 10 0	24 10 0	37 5 3	..	
				Sold from depot.								
	Kollegál and Bhaváni.	..	III	Confiscated drift and waifwood.	..	..	..	64 4 3	64 4 3	..	..	
				Sold from forests.								
	Satyamangalam, Kollegál, and Bhaváni.	..	III	Confiscated drift and waifwood.	..	..	..	65 9 6	65 9 6	..	..	
				Total ..	..	..	..	..	129 13 9	..	..	
				Grand Total ..	..	..	..	..	154 7 9	..	..	
				Sold from depot.	No.							
South Coimbatore	..	Coimbatore depôt ..	I (*a*)	Teak	4	93 4 9	1 4 0	116 11 11	116 11 11	4	..	
		..	Do.	Do.	253	4,776 11 3	0 10 4	3,087 0 0	3,087 0 0	253	..	
		..	Do.	Do.	14	506 3 8	2 0 0	1,012 9 0	1,012 9 0	14	..	
		..	Do.	Do.	23	611 7 6	1 12 0	1,070 5 11	1,070 5 11	23	..	
		..	Do	Do.	15	462 1 6	1 2 0	693 3 3	693 3 3	15	..	
		..	Do.	Rosewood ..	19	384 7 2	1 0 0	376 10 0	376 10 0	19	..	
		..	Do.	Junglewood ..	1	27 0 0	1 4 0	34 6 0	34 6 0	1	..	
		Anaimalai depôt ..	Do.	Rosewood ..	16	144 0 0	0 12 0	108 0 0	108 0 0	16	..	
				Total ..	..	..	..	..	6,498 14 1	..	..	
				Minus ..	..	..	..	..	42 7 0	..	..	Transferred to I (*e*) in Form No. 64.
				Total ..	..	..	..	..	6,456 7 1	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Coimbatore—*cont.*	Tunakadavu ..	..	I (*c*)	Cardamom ..	lb. 1,981	..	..	1,789 4 3	1,789 4 3	..	..	
	..	..	Do.	Dammer ..	,, 12,259	..	..	1,019 11 10	1,019 11 10	..	..	
	..	..	Do.	Wax	,, 2,605	..	..	774 6 9	774 6 9	..	..	
	..	..	Do.	Deer horns ..	,, 206	..	..	35 14 4	35 14 4	..	..	
	..	..	Do	Pepper	,, 109	..	..	84 8 9	84 8 9	..	..	
	..	..	Do.	Turmeric	,, 2,497	..	..	132 14 7	132 14 7	..	..	
	..	..	Do.	Seekoy	,, 19,878	..	..	34 8 3	34 8 3	..	..	
	..	..	Do.	Mattipal	,, 137	..	..	44 5 5	44 5 5	..	..	
	..	..	Do.	Ivory	,, 5½	..	..	176 0 0	176 0 0	..	..	
	..	..	Do.	Honey	Mds. 101	..	..	98 1 6	98 1 6	..	..	
	..	..	Do.	Rattans	No. 68,235	..	..	1,179 1 6	1,179 1 6	..	..	
	Penachi ..	..	Do.	Cardamoms ..	lb. 941	..	..	894 0 0	894 0 0	..	..	
	..	..	Do.	Dammer	,, 5,106	..	..	454 5 11	454 5 11	..	..	
	..	..	Do.	Wax	,, 193	..	..	71 14 6	71 14 6	..	..	
	..	..	Do.	Deer horns ..	,, 20	..	..	2 0 1	2 0 1	..	..	
	..	..	Do.	Gall-nuts	,, 5,209	..	..	172 5 3	172 5 3	..	..	
	..	..	Do.	Tetankottai ..	,, 1,481	..	..	25 14 9	25 14 9	..	..	
	..	..	Do.	Mattipal	,, 20	..	..	0 12 0	0 12 0	..	..	
	..	..	Do.	Honey	Mds. 3¾	..	..	3 3 9	3 3 9	..	..	
	..	..	Do.	Rattans	No. 5,000	..	..	118 12 0	118 12 0	..	..	
				Total ..	..	..	..	..	7,112 1 5	..	..	
				Plus ..	..	..	..	..	42 7 0	..	..	Transferred from I (*a*) in Form No. 64.
				Total ..	..	..	..	..	7,154 8 5	..	..	
				Sold locally.								
	..	..	III	Confiscated drift and waifwood.	..	..	..	119 9 9	119 9 9	..	..	
				Deduct amount transferred to V (*c*). by Examiner.	..	..	..	..	16 0 0	..	..	
				Total of III ..	..	..	..	..	103 9 9	..	..	
				Grand Total ..	..	..	..	..	13,714 9 3	..	..	
				Sold from depôt.								
Madura ..	..	Kodaikanal depôt.	I (*b*)	Firewood	Tons. lb. 271 1,460	..	Rs. 2½ and 3 per 1,000 lb., exclusive of carriage hire.	1,653 8 6	1,653 8 6	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forest.				Rs. A. P.	Rs. A. P.	C. Ft.		
Madura—*cont.*	No. 1 Periyakulam.	..	I (*a*)	Vengai	..	245	Auction	418 1 0	418 1 0	389	..	
	..	..	Do.	Mangakadambai ..	..	89	..					
	..	..	Do.	Blackwood ..	..	55	..					
	No. 2 Kôdaikânal.	..	Do.	Vengai	..	200	..	154 0 0	154 0 0	200	..	
				Total ..	..	..	..	..	572 1 0	..	..	
		..	III	Confiscated drift and waifwood.	..	..	..	624 7 4	624 7 4	..	..	
				Total of District.	..	..	..	..	2,850 0 10	..	..	
				Sold from depôt.	No.							
Tinnevelly	Ambásamudram.	..	I (*a*)	Miscellaneous logs and plants.	4,374	5,282	..	5,456 14 6	4,385 2 4	4,374	..	
	..	..	Do.	Miscellaneous pieces.	1,169	..	..	136 8 10	125 12 7	1,169	..	
				Sold from forest.								
	Pápanásam ..	..	Do.	Kongue logs ..	4,195	3,317	..	3,990 5 2	3,990 5 2	4,195	..	
	..	..	Do.	Vengai	12	15	..	20 10 0	20 10 0	12	..	
	..	..	Do.	Teak felloes ..	12	..	..	2 8 0	2 8 0	12	..	
	..	..	Do.	Miscellaneous pieces.	374	..	..	33 8 7	33 8 7	374	..	
	Kalakád ..	..	Do.	Teak pieces ..	1,101	..	..	91 6 0	91 6 0	1,101	..	
	..	..	Do.	Miscellaneous timber.	28½ cartloads	570	..	104 0 0	104 0 0	28½ cartloads	..	
				Total ..	..	..	..	..	8,753 4 8	..	..	
	Pápanásam ..	..	I (*c*)	Bamboos	10½ Tons.	..	..	268 14 0	268 14 0	..	..	
	Tinnevelly sub-range.	..	I (*e*)	Seedlings.. ..	1,430	..	..	45 1 9	45 1 9	1,430	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	342 15 10	342 15 10	..	..	
				Total of District ..	..	..	..	..	9,410 4 3	..	..	
				Sold from forest.								
Malabar (Wynaad and Pálghat).	Chedlet and Begur.	..	I (*a*)	Teak logs.. ..	817	13,754 + 2 sawn scantlings	..	7,054 5 0	7,054 5 0	..	..	
	..	..	Do.	Blackwood ..	371	7,567	..	4,333 13 5	4,333 13 5	..	..	
	..	..	Do.	Miscellaneous ..	5	111	..	27 14 6	27 14 6	..	..	
	Chenatnair forest, Walayár, &c.	..	Do.	Blackwood ..	4	96	..	102 7 3	102 7 3	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic Feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forest.	No.			Rs. A. P.	Rs. A. P.			
Malabar (Wynaad and Pálghat)—*cont.*	Chenatnair forest, Wálayár, &c.-*cont.*	..	I (*a*)	Vengai	10	312	..	160 14 5	160 14 5	..	..	
	..	..	Do.	Miscellaneous ..	235	10,948	..	4,047 9 0	4,047 9 0	..	..	
	..	..	Do.	Teak poles ..	1,318	..	..	2,192 4 0	2,192 4 0	..	..	
	..	..	Do.	Teak pieces ..	5,776	..	..	424 12 6	424 12 6	..	..	
				Total ..	..	..	..	..	18,344 0 1	..	..	
					Tons C.Ft.							
	Wálayár ..	..	I (*b*)	Billet wood ..	1,925 1	..	..	1,152 15 0	1,152 15 0	..	..	
	..	..	Do.	Faggot wood ..	1,392 5	..	..	519 14 0	519 14 0	..	..	
				Total ..	..	..	..	..	1,672 13 0	..	..	
	..	..	I (*c*)	Bamboos	19,977	..	..	69 9 7	69 9 7	..	..	
	Manantoddy ..	..	I (*e*)	Honey	lb. 24¾	..	0 3 0	4 10 3	4 10 3	..	..	
	..	..	Do	Cardamoms ..	,, 288	..	Rs. 25 per tulam of 32 lb.	192 5 6	192 5 6	..	..	
	London ..	..	Do.	Ivory	,, 64	..	..	266 3 1	266 3 1	..	..	
	Palghát ..	..	Do.	Honey	,, 100	..	..	27 8 0	27 8 0	..	..	
	..	..	Do.	Wax	,, 18	..	..	6 15 7	6 15 7	..	..	
	..	..		Total ..	..	..	..	..	497 10 5	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	6 0 5	6 0 5	..	..	
				Total of District ..	..	..	..	..	20,590 1 6	..	..	
				Sold from depot.								
		Panayangod forest depot.	I (*a*)	Teak logs ..	739	6,123	7 1 0 per candy.	3,326 7 0	3,326 7 0	..	..	
		..	Do.	Do. ..	73	..	1 0 0 each.	73 0 0	73 0 0	..	..	
Malabar (Nilambúr).	..	..	Do.	Blackwood ..	38	403	6 8 0 per candy.	201 8 0	201 8 0	..	..	
		..	Do.	Benteak ..	370	5,939	2 11 0	1,227 12 5	1,227 12 5	..	..	
		..	Do.	Karimarudu ..	580	8,239	2 6 0	1,505 3 2	1,505 3 2	..	..	
		..	Do.	Pamaridu ..	431	10,107	1 2 0	874 10 4	874 10 4	..	..	
		..	Do.	Erul	220	3,542	1 4 0	340 9 2	340 9 2	..	..	
		Kallai sale depot..	Do.	Teak saplings ..	285	2,903 0 11	9 0 0 per candy.	2,009 13 2	1,935 6 2	24	261	
				Total ..	..	..	..	..	* 9,484 8 3	..	..	

* The Examiner's figure is Rs. 14,862-7-1. The difference is the outstanding of previous year.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							Rs. A. P.	Rs. A. P.	Rs. A. P.			
Malabar (Nilambúr)—*cont.*	Nilambúr river..	..	I (*e*) ..	Bamboos .. .. *Local sale.*	12,500	..	9 4 0 per 100	1,156 4 0	1,156 4 0	..	..	
	..	..	Do.	Bamboos	1,655	..	6 0 0 per 100	99 4 10	99 4 10	..	..	
				Total ..	..	..	..	..	1,255 8 10	..	..	
				Add deposit paid by bamboo purchaser.	..	..	..	..	428 13 4	..	..	
				Total of I (*e*) ..	..	..	..	..	1,684 6 2	..	..	
				Total of District ..	..	..	..	..	11,168 14 5	..	..	
South Canara.				*Sold from depôt.*								
	..	..	I (*a*) ..	Teak	4	74½	16 0 0 per 12¾ c. feet.	93 4 10	93 4 10	4	..	
	..	..	Do.	Do.	29	596	11 0 0 per 12¾ c. feet.	514 3 2	514 3 2	29	..	
	..	..	Do.	Blackwood ..	2	34¼	18 0 0 per 12¾ c. feet.	48 5 8	48 5 8	2	..	
	..	..	Do.	Do.	33	484	..	398 8 0	283 8 0	33	..	
	..	..	Do.	Miscellaneous ..	10	213¼	11 0 0 per 12¾ c. feet.	183 15 8	183 15 8	10	..	
	..	..	Do.	Do.	9	204	Auction.	138 8 0	138 8 0	9	..	
	..	..	Do.	Do.	102	1,947	Do.	1,190 10 0	1,190 10 0	99	..	
	..	..	Do.	Miscellaneous timber.	275	5,943¾	Retail sale ..	4,600 11 6	4,600 11 6	..	..	
				Sold from forest.								
	Kondapur ..	..	Do.	Rosewood ..	5	60¾	Auction.	62 0 0	62 0 0	..	..	
	..	..	Do.	Miscellaneous ..	155	3,786¾	..	2,512 2 6	2,512 2 6	..	..	
	Uppinangadi range.	..	Do.	Teak pieces ..	6	..	..	36 0 0	36 0 0	..	..	
	..	..	Do.	Top pieces of trees..	14	..	..	5 4 0	5 4 0	..	..	
	Kásaragód range	..	Do.	Teak poles ..	183	345	..	26 8 0	26 8 0	..	..	
				Total ..	..	..	..	..	9,695 1 4	..	..	
				Add amount transferred from I (*e*).	..	..	..	..	2 11 0	..	..	
				Total ..	..	..	..	..	9,697 12 4	..	..	
					Tons. lb.							
	Kondapur ..	..	I (*b*) ..	Firewood ..	8 1,536	..	Auction.	40 6 3	40 6 3	..	..	
	Mangalore ..	..	Do.	Do.	27 809	..	Do.	112 12 0	112 12 0	..	..	
				Total ..	..	..	..	..	153 2 3	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forest—cont.	Tons. lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Canara —*cont.*	Kondapur ..	..	I (*e*)	Beleric myrabolams.	0 21	..	15 0 0 per ton.	0 2 3	0 2 3	..	..	
	..	..	Do.	Catechu	5 1,923	..	469 1 6	2,748 2 11	2,748 2 11	..	..	
	..	..	Do.	Cinnamon flowers ..	1 2,077	..	276 0 9	419 9 8	419 9 8	..	..	
	..	..	Do.	Deer horns ..	0 250	..	397 6 7	44 5 8	44 5 8	..	..	
	..	..	Do.	Honey	0 450	..	181 15 10	37 4 8	37 4 8	..	..	
	..	..	Do.	Myrabolams ..	22 546	..	79 7 5	589 3 4	589 3 4	..	..	
	..	..	Do.	Nux vomica ..	0 1,306	..	47 7 8	27 10 11	27 10 11	..	..	
	..	..	Do.	Pepper	0 13	..	461 4 6	2 10 10	2 10 10	..	..	
	..	..	Do.	Sleige	13 824	..	61 3 1	818 0 0	818 0 0	..	..	
	..	..	Do.	Wax, 1st sort ..	0 278	..	1,235 15 3	153 6 3	103 6 3	..	..	
	..	..	Do.	Wax, 2nd sort ..	0 251	..	935 5 11	104 12 11	54 12 11	..	..	
	..	..	Do.	Wild mace ..	4 613	..	359 11 0	1,537 3 1	1,537 3 1	..	..	
	..	..	Do.	Do. nutmeg ..	8 504	..	60 13 7	500 7 5	500 7 5	..	..	
	Udipi ..	..	Do.	Beleric myrabolams.	0 1,705	..	1 6 4	1 1 0	1 1 0	..	..	
	..	..	Do.	Cardamoms ..	0 23	..	1,753 0 8	18 0 0	18 0 0	..	..	
	..	..	Do.	Cinnamon flowers ..	1 1,219	..	249 12 5	385 11 3	385 11 3	..	..	
	..	..	Do.	Deer horns ..	0 34	..	339 5 10	5 2 5	5 2 5	..	..	
	..	..	Do.	Honey	0 494	..	172 3 5	37 15 8	37 15 8	..	..	
	..	..	Do.	Myrabolams ..	5 1,174	..	49 12 1	274 13 9	274 13 9	..	..	
	..	..	Do.	Nux vomica ..	4 1,887	..	48 12 1	236 5 9	236 5 9	..	..	
	..	..	Do.	Pepper	0 281	..	720 12 3	90 6 8	90 6 8	..	..	
	..	..	Do.	Sleige	8 2,213	..	143 1 1	1,285 14 9	1,235 14 9	..	..	
	..	..	Do.	Wax, 1st sort ..	0 36	..	1,317 10 11	21 2 10	21 2 10	..	..	
	..	..	Do.	Do. 2nd sort ..	0 74	..	854 0 6	28 3 5	28 3 5	..	..	
	..	..	Do.	Brambles, &c., from Agarkad reserve.	11 heaps.	..	..	7 8 0	7 8 0	..	..	
					Tons. lb.							
	Mangalore ..	..	Do.	Beleric myrabolams.	0 1,162	..	2 5 7	1 3 6	1 3 6	..	..	
	..	..	Do.	Cinnamon flowers ..	0 1,295	..	212 13 3	123 0 8	123 0 8	..	..	
	..	..	Do.	Do. bark ..	0 6	..	46 10 8	0 2 0	0 2 0	..	..	
	..	..	Do.	Deer horns ..	0 80	..	350 11 8	12 8 5	12 8 5	..	..	
	..	..	Do.	Myrabolams ..	1 336	..	33 1 9	38 0 11	38 0 11	..	..	
	..	..	Do.	Nux vomica ..	21 1,399	..	41 5 2	893 9 8	893 9 8	..	..	
	..	..	Do.	Pepper	0 637	..	759 5 5	215 15 0	188 3 0	..	..	
	..	..	Do.	Sleige	110 929	..	55 8 6	6,131 11 9	6,131 11 9	..	..	
	..	..	Do.	Wax, 1st sort ..	0 51	..	1,241 0 3	28 4 1	28 4 1	..	..	
	..	..	Do.	Do. 2nd sort ..	0 111	..	640 3 1	31 11 7	31 11 7	..	..	
	..	..	Do.	Wild mace ..	9 0	..	360 4 2	3,242 5 7	3,242 5 7	..	..	
	..	..	Do.	Do. nutmeg ..	3 910	..	29 8 0	100 7 9	100 7 9	..	..	
	..	..	Do.	Wood oil	0 111	..	544 13 10	27 0 0	27 0 0	..	..	
	Uppinangadi ..	..	Do.	Cinnamon flowers ..	0 2½	..	163 5 4	0 2 11	0 2 11	..	..	
	..	..	Do.	Deer horns ..	0 18	..	396 10 8	3 3 0	3 3 0	..	..	
	..	..	Do.	Honey	0 64	..	273 7 0	7 13 0	7 13 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forest—cont.	Tons. lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Canara—*cont.*	Uppinangadi—*cont.*	..	I (*e*).	Myrabolams ..	0 115	..	28 3 3	1 7 2	1 7 2	..	..	
	..	..	Do.	Nux vomica ..	1 1,644	..	30 4 0	52 8 10	52 8 10	..	..	
	..	..	Do.	Pepper	0 364	..	972 4 11	158 15 9	158 15 9	..	..	
	..	..	Do.	Sleige	3 589	..	40 3 2	131 2 8	131 2 8	..	..	
	..	..	Do.	Wax, 1st sort ..	0 72	..	2,540 5 7	35 10 9	35 10 9	..	..	
	..	..	Do.	Wild mace ..	5 1,471	..	319 1 3	1,804 14 8	1,804 14 8	..	..	
	..	..	Do.	Do. nutmeg ..	2 975	..	54 0 4	126 11 1	126 11 1	..	..	
	..	..	Do.	Teak branches, &c.	..	..	..	2 11 0	2 11 0	..	..	
	Kásaragód ..	..	Do.	Beleric myrabolams.	0 56	..	10 10 0	0 4 3	0 4 3	..	..	
	..	..	Do.	Deer horns ..	0 82	..	579 5 7	21 3 4	21 3 4	..	..	
	..	..	Do.	Honey	0 9	..	365 8 11	1 7 6	1 7 6	..	..	
	..	..	Do.	Myrabolams ..	0 423	..	52 12 8	9 15 6	9 15 6	..	..	
	..	..	Do.	Nux vomica ..	0 11	..	46 10 8	0 3 8	0 3 8	..	..	
	..	..	Do.	Sleige	0 84	..	66 4 0	2 9 1	2 9 1	..	..	
				Total ..	..	..	..	..	22,404 10 6	..	..	
				Deduct amount transferred to I (*a*).	..	..	..	..	2 11 0	..	..	
				Total of I (*e*) ..	..	..	..	..	22,401 15 6	..	..	
	Udipi, Mangalore, Uppinangadi, and Kásaragód range.	..	III.	Confiscated drift and waifwood.	..	..	..	507 1 5	502 1 5	..	..	
				Total of District.	..	..	..	..	32,754 15 6	..	..	
				Grand Total ..	..	..	..	1,39,606 4 2	1,35,177 12 1	..	..	

Grand Total ..

Teak	30,003 cubic feet and 8,233 logs, poles, and pieces.
Vengai	3,942 cubic feet.
Blackwood	9,228⅔ cubic feet.
Junglewood	2,000 cubic feet.
Red sanders	50 tons.
Sandalwood	13 tons, 1,594 lb., and a heap of chips.
Bamboos	5 tons, 2,156 lb., No. 49,131 ; 20½ cartloads and 6 bundles.
Miscellaneous timber	66,030⅓ cubic feet, 152 tons, and 2,044 logs and poles.
Firewood and charcoal	12,233 tons, 932 lb., and 324 poles.
Minor produce	440 tons, 1,659 lb., No. 351,673 ; 18 bundles, 115¾ measures, and 9¼ candies.

ABSTRACT.

Budget sub-head.	Sold from depôt.			Sold from forest.		
	Rs.	A.	P.	Rs.	A.	P.
I (*a*)	31,927	8	9	29,262	8	0
I (*b*)	6,159	9	9	24,896	6	3
I (*c*)	356	12	0	2,171	8	3
I (*d*)	5,057	7	0	..		
I (*e*)	7,255	8	9	25,193	4	0
III	160	1	2	2,737	2	2
Total ..	50,916	15	5	84,260	12	8
Total ..	..			1,35,177	12	1
Add outstandings due from previous years collected during the year.	..			8,021	2	10
Total ..	..			1,43,198	14	11

Abstract of amount realized.

	Rs.	A.	P.
I (*a*)	66,570	10	7
I (*b*)	33,699	4	0
I (*c*)	2,528	4	3
I (*d*)	5,057	7	0
I (*e*)	32,446	1	9
III	2,897	3	4
Total ..	1,43,198	14	11

ANNUAL FORM No. 72.

Forest Department, Madras, Southern Circle.

Timber and other Produce cut, collected, and removed from the Forests by Consumers or Purchasers, including Pasture during the year 1886-87.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		C. FT.	RS.	RS.	
Chingleput ..	Junglewood poles	64,120¼	4,008	4,008	II (*a*).
		TONS. LB.			
	Firewood	14,614 2,109	9,134	9,134	
	Deduct as per Examiner's account the amount included in summary of 1885-86.	..	..	300	
	Total ..	..	..	8,834	II (*b*).
	Bamboos	129 2,002	344	344	II (*c*).
	Grazing	..	641	641	II (*d*).
	Avaram bark and rent on palmyra fruit trees, &c.	..	1,501	1,501	II (*e*).
	Total of the District ..	..	15,628	15,328	
		C. FT.			
North Arcot ..	Timber (rough and squared)	185,979	18,038	18,038	II (*a*).
		TONS. LB.			
	Firewood	35,686 2,191	37,089	37,041	
	Charcoal	994 1,249⅓	3,937	3,937	
	Total ..	36,681 1,200⅓	41,026	40,978	
	Add outstanding from previous year ..	..	..	80	
	Total ..	..	..	41,058	II (*b*).
	Bamboos	4,670 1,288	16,124	16,124	II (*c*).
	Grazing and fodder grass	..	1,423	1,423	II (*d*).
	Bark	212 1,204	1,190	1,191	
	Other minor produce	..	15,072	15,072	
	Total ..	212 1,204	16,262	16,263	
	Deduct amount erroneously credited ..	..	..	12	
	Total ..	..	..	16,251	II (*e*).
	Total of the District ..	..	92,873	92,894	
		C. FT.			
South Arcot ..	Timber, 1st, 2nd, and 3rd class	30,673½	1,948	1,948	
	Casuarina	513	221	53	
	Miscellaneous timber	19,265	2,430	2,431	
	Palmyra and date trees	NO. 313	279	279	
	Total ..	50,451½ / NO. 313	4,878	4,711	II (*a*).
		TONS. LBS.			
	Firewood	12,253 745	13,048	13,048	
	Charcoal	118 1,756	705	705	
	Total ..	12,372 261	13,753	13,753	II (*b*).
	Bamboos (split and rough)	1,395 1,736	3,522	3,522	II (*c*).
	Grazing and fodder grass	7 2,184	1,306	1,306	II (*d*).
	Minor produce	7,287 1,239½ / NO. 33,126	10,130	10,130	II (*e*).
	Total of the District ..	..	33,589	33,422	

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
Salem ..	Timber	C. FT. 92,218	RS. 10,372	RS. 10,372	II (*a*).
	Firewood	TONS. 23,486 23/40	14,679	14,679	
	Engine fuel	1,734 1/2	1,832	1,832	
	Charcoal	1,492 17/40	6,718	6,719	
	Total ..	26,713 1,120	23,229	23,230	II (*b*).
	Bamboos	10,877 9/20	24,304	24,304	II (*c*).
	Grass	..	24	24	II (*d*).
	Palmyra and tamarind trees	..	31,913	31,913	
	Minor produce	270 112	497	497	
	Minor produce contract	..	23,114	23,114	
	Total ..	270 112	55,524	55,524	II (*e*.)
	Add as per Examiner's audited figures ..	..	..	88	
	Total ..	..	..	55,612	
	Total of the District ..	..	1,13,453	1,13,542	
Trichinopoly ..	Casuarina and babul trees	NO. 177	232	232	
	Timber, 1st, 2nd, and 3rd class	C. FT. 257,798	17,341	17,341	
	Total ..	257,798 C. FT. NO. 177	17,573	17,573	II (*a*).
	Firewood	TONS. LB. 6,501 261	4,523	4,523	
	Charcoal	160 112	634	634	
	Total ..	6,661 373	5,157	5,157	II (*b*).
	Bamboos	NO. 677	97	97	
	Bamboos	TONS. LB. 1,490 1,442	3,074	3,074	
	Bamboo thorns	40 bundles.	1	1	
	Total ..	No. 677 TONS. LB. 1,490 1,442	3,172	3,172	II (*c*).
	Grass	..	2,566	2,328	II (*d*).
	Minor produce	616	4,540	4,349	II (*e*).
	Total of the District ..	..	33,008	32,579	
Tanjore ..	Timber, 1st, 2nd, and 3rd class	C. FT. 3,380	241	241	II (*a*).
	Firewood	TONS. LB. 2,804 112	5,109	5,109	
	Charcoal	35 1,736	141	141	
	Total ..	2,839 1,848	5,250	5,250	II (*b*).
	Bamboos	TONS. LB. 29 1,792	70	70	II (*c*).
	Grazing and fodder grass	..	414	414	II (*d*).
	Minor produce	..	2,620	2,620	II (*e*).
	Total of the District ..	..	8,595	8,595	
North Coimbatore	Timber	C. FT. 33,657	4,928	4,928	II (*a*).
	Firewood	TONS. LB. 5,720 0	4,596	4,596	
	Charcoal	33 1/4 0	98	98	
	Total ..	5,753 560	4,694	4,694	II (*b*).

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
North Coimbatore—*cont.*	Bamboos (plain and split)	3,758	9,507	9,507	II (*e*)
	Grazing and fodder grass	..	22,465	22,465	II (*d*)
	Minor produce	..	2,856	2,856	
	Minor produce contract	..	6,200	6,200	
	Rent of topes, &c., including the arrears of previous years.	..	44,273	23,853	
	Total ..	..	53,329	32,909	II (*e*)
	Total of the District ..	..	94,923	74,503	
		C. FT.			
South Coimbatore.	Teak	4,522	3,172	3,172	
	Vengai	4,328	1,002	1,002	
	Miscellaneous	45,939	5,915	5,915	
	Total ..	54,789	10,089	10,089	
	Add amount transferred from V (*c*) ..	..	..	8	
	Total ..	..	..	10,097	II (*a*)
	Firewood	14,647	10,945	10,945	
	Charcoal	142	501	501	
	Total ..	14,789	11,446	11,446	II (*b*)
		TONS.			
	Bamboos (plain and split)	5,184	5,722	5,722	II (*c*)
	Grazing and fodder grass	..	5,241	5,242	II (*d*)
	Minor produce contract	..	1,184	1,184	
	Other minor produce	..	7,011	7,011	
	Total ..	..	8,195	8,195	II (*e*)
	Total of the District ..	..	40,693	40,702	
		C. FT.			
Madura ..	Vengai	7,341	2,664	2,664	
	Junglewood	264,855	15,429	15,293	
	Vekkali	701	123	123	
	Vagai	33	6	6	
	Miscellaneous timber	486	117	117	
	Revenue collected by the Vaimbam Gumastah but reported to have been stolen away.	..	* 378	..	
	Total ..	273,416	18,717	18,203	II (*a*)
		TONS. LB.			
	Firewood	15,537 828	11,582	11,582	
	Charcoal	608 1,680	2,505	2,505	
	Total ..	16,146 268	14,087	14,087	II (*b*)
	Bamboos (plain and split)	1,326 804	3,397	3,397	II (*c*)
	Grazing	7,405	1,392	1,392	II (*d*)
	Minor forest produce	2,365 28	22,989	† 22,042	II (*e*)
	Total of the District ..	..	60,582	59,121	
Tinnevelly ..	Vengai	1,576	1,302	1,302	
	Teak materials	857	353	353	
	Chokla do.	1,976	753	753	
	Miscellaneous timber	625	279	279	
	Timber, 1st, 2nd, and 3rd class	29,844	3,100	3,100	
	Timber contractor's deposit credited to Revenue.	..	100	100	
	Total ..	34,878	5,887	5,887	II (*a*)

* To be recovered from the Gumastah.

† Of the difference of Rs. 947 Rs. 815 should be recovered from the minor produce contractors and Rs. 132 from the Permit Gumastahs of Kalarapatti and Sellappanaikenpatti.

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		Tons. lb.	Rs.	Rs.	
Tinnevelly—*cont.*	Firewood	12,030 728	15,052	15,354	
	Charcoal	19,747 784	7,589	7,589	
	Total ..	31,779 1,512	22,641	22,943	
	Add as per Examiner's audited figure ..	..	..	1	
	Total ..	..	..	22,944	II (*b*).
		Tons.			
	Bamboos, &c.	196	870	870	II (*c*).
	Grazing fees	..	251	313	II (*d*).
	Minor produce	..	13,390	14,101	II (*e*).
	Total of the District ..	..	43,039	44,115	
Malabar (Wynaad and Pálghat).	Blackwood pieces	6	2	2	
	Miscellaneous timber	3	5	5	
	Advance for timber	..	2,600	2,600	
	Total ..	9	2,607	2,607	II (*a*).
		Tons.			
	Firewood	367	307	307	
	Charcoal	47½	119	119	
	Total ..	414½	426	426	II (*b*).
	Bamboos in (Wynaad and Palghát) ..	33,782	512	512	II (*c*).
	For right to cut and remove grass ..	..	117	117	II (*d*).
	For right to collect minor produce ..	..	1,160	1,160	
	Do. do. coffee crops	..	78	78	
	Do. do. pepper crops	..	206	206	
	Total ..	..	1,444	1,444	II (*e*).
	Total of the District ..	..	5,106	5,106	
Malabar (Nilambúr).	Uprooted and dry timber	283	714	714	
	Junglewood trees	519	260	260	
	Total ..	802	974	974	II (*a*).
	Bamboos	5,055	152	152	II (*c*).
	Total of the District ..	..	1,126	1,126	
South Canara ..	Reserved trees	108	808	808	
	Classified trees	289	* 1,337	1,337	
	Unclassified trees	77	154	154	
	Trees, saplings, and plants	..	104	104	
	Dead and withered trees	..	37	37	
	Total ..	474	2,440	* 2,440 + 138	
	Total ..	..	..	2,578	II (*a*).
		Tons. lb.			
	Firewood	13,400 1,798	17,596	13,829	
	Charcoal	96 1,867	291	291	
	Total ..	13,497 1,425	17,887	14,120	II (*b*).

	Rs.	A.	P.
* Amount realized under (*a*) as per this statement	2,440	6	2
Deduct amount received in October 1885 .. .. 14 0 0			
Do. paid to Karkal Deputy Tahsildar but not remitted to treasury 28 0 0			
	42	0	0
	2,398	6	2
Add amount paid on trees not removed	180	0	0
Amount as per Form No. 64	2,578	6	2

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
South Canara—*cont.*	Bamboos	37,599	478	* 478 + 23	II (*c*).
	Total ..	..	* 478	501	
	Minor produce	..	111	111	
	Assessment on Neriya Cardamom tract ..	..	1,500	1,500	
	Rent of pepper kan for 1885-86	..	4	4	
	Do. of Cardamom forests ..	..	720	720	
	Total ..	Tons. lb. 24 443 / No. 9,466	2,335	2,335	II (*e*).
	Deduct amount of deposit twice credited in the accounts for 1885-86.	..	..	450	
	Total ..	..	..	1,885	
	Total of the District ..	..	23,140	19,084	
	Grand Total .. II (*a*)		1,00,752	1,00,217	
	II (*b*)		1,68,730	1,64,999	
	II (*c*)		68,174	68,196	
	II (*d*)		35,840	35,665	
	II (*e*)		1,92,259	1,71,038	
	Total ..		5,65,755	5,40,115	
	Deduct outstandings of previous years erroneously added in North Coimbatore and other errors found by checking the figures with the audited figures.		24,742	..	
	Net result ..		5,41,013	..	

	Rs.	A.	P.
* Amount realized as per this statement	478	3	6
Add fees on 1,500 bamboos not removed	22	8	0
Total as per Form No. 64 ..	500	11	6

Abstract of Form No. 72.

District.	Timber Miscellaneous.		Firewood.		Bamboos.			Minor produce.		
	C. ft.	No.	Tons.	lb.	Tons.	lb.	No.	Tons.	lb.	No.
Chingleput	64,120¼		14,614	2,109	129	2,002		..		
North Arcot	185,979		36,681	1,200⅓	4,670	1,288		212	1,204	
South Arcot	50,451⅓	313	12,372	261	1,395	1,736		7,387	1,239½	33,126
Salem	92,218		26,713	1,120	10,877	908		270	112	
Trichinopoly	257,798	177	6,661	373	1,490	1,442	677	0	616	
Tanjore	3,380		2,339	1,848	29	1,792		..		
North Coimbatore	33,657		5,753	560	3,758	0		..		
South Coimbatore	54,789		14,789	0	5,184	0		..		
Madura	273,416		16,146	268	1,326	804		2,365	28	
Tinnevelly	34,878		31,779	1,512	196	0		..		
Malabar (Wynaad and Pálghat) ..	9		414	1,120	..		33,782	..		
Malabar (Nilambúr)	802		..		..		5,055	..		
South Canara	474		13,497	1,425	..		37,599	24	443	9,466
Total ..	1,051,971¾	490	182,263	596⅓	29,058	1,012	77,113	10,159	1,402½	42,592

Annual Form No. 73-A.

Forest Department, Madras, Southern Circle.

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1886-87.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Chingleput ..	....	..	..	..	..	..	..	..	..	
North Arcot ..	Redwood roots and stumps	..	..	..	Tons. lb. 15 0	..	225	225	..	
	Jungle and babul wood (fuel)	Tons. lb. 160 1,656	..	321	191 948½	..	383	62	..	
	Sandalwood and roots	11 812	..	909	6 430	..	495	..	414	
	Total ..	172 228	..	1,230	212 1,378½	..	1,103	..	127	
South Arcot ..	Eruvadi logs	No. 9	Tons. lb. 35 3	18	..	..	..	..	18	
	Miscellaneous logs	95	350 9	219	..	..	..	..	219	
	Miscellaneous poles	31	85 9		..	..	..	..		
	Sandalwood billets	Tons. lb. 0 1,722	..	199	Tons. lb. 2 634½	..	514	315	..	
	Sandalwood roots	0 56	..	1	..	..	..	..	1	
	Honey	0 39	..	9	0 11	..	2	..	7	
	Thatching grass	..	..	..	1 0	..	1	1	..	
	Total ..	..	..	446	..	..	517	71	..	
Salem ..	Miscellaneous timber, &c.	No. 133	402 9 2	469	24	31 3 0	40	..	429	
	Sandalwood	Tons. lb. 2 297	..	853	Tons. lb. 2 1,435	..	1,056	203	..	
	Total ..	..	..	1,322	..	..	1,096	..	226	
Trichinopoly ..	Casuarina poles	No. 29	..	4	..	..	..	..	4	
	Firewood	Tons. lb. 77 2,041	..	308	212	207	634	326	..	
	Total ..	..	..	312	..	..	634	322	..	
Tanjore	....	..	..	..	..	..	..	..	..	

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1886-87—*continued.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favor of the year.	Against the year.	
		Mds.		Rs.	Mds.		Rs.	Rs.	Rs.	
North Coimbatore.	Sandalwood	71½	..	249	67½	..	234	..	15	
		No.								
	Teak logs	9	40 6	30	..	..	..	..	30	
	Teak saplings	26	..	..	..	..	..	..	..	
	Miscellaneous saplings	6	..	..	..	..	..	..	..	
	Total ..	..	..	279	..	..	234	..	45	
South Coimbatore.	Teak	389	8,964	6,538	348	11,556	8,307	1,769	..	
	Rosewood	272	4,341	2,170	150	2,302	575	..	1,595	
	Junglewood	3	78	20	..	..	..	..	20	
	Total ..	664	13,383	8,728	551	13,858	8,882	154	..	
Madura	Firewood	Tons. lb. 106 1,143	..	265	Tons. lb. 28 2,205	..	82	..	183	
Tinnevelly ..	Miscellaneous logs and planks	505	1,110	1,381	89	54	54	..	1,327	
	Miscellaneous pieces	..	..	..	155	..	30	30	..	
		lb.								
	Tanikoi	687	..	8	..	..	..	..	8	
	Total ..	..	..	1,389	..	..	84	..	1,305	
Malabar (Wynaad and Pálghat).	....	..	..	..	..	..	..	..	..	
	Selection felling.									
Malabar (Nilambúr)	Teak	..	..	..	272	..	4,000	..	..	
	Blackwood	..	..	..	108					
	Benteak	..	..	..	242					
	Miscellaneous	..	..	..	78					
	Clearings.									
	Teak logs	880	..	..	97	..	..	..	..	
	Teak poles	..	..	..	82					

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1886-87—*continued.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		No.	Cubit feet.	Value.	No.	Cubic feet.	Value.	In favor of the year.	Against the year.	
	Clearings—cont.			Rs.			Rs.	Rs.	Rs.	
Malabar (Nilambúr) —*cont.*	Blackwood logs	38	403	..	3	..	1,000	..	..	
	Blackwood poles	..	..	..	2					
	Benteak logs	370	27,827	..	179					
	Benteak poles	..			7					
	Miscellaneous logs	1,302			14					
	Miscellaneous poles	..	..	..	13					
	Thinnings.									
	Teak saplings	..	..	..	..	..	45,000	..	..	
	Superior, large	3	68	51	2,829					
	Superior, small	..	..	..	2,709					
	1st class	1	..	..	3,714					
	2nd do.	2	..	..	5,782					
	3rd do.	10	..	..	8,859					
	4th do.	49	..	..	15,892					
	5th do.	36	..	..	10,179					
	6th do.	7	..	..	905					
	7th do.	..	..	..	1,129					
	8th do.	11	..	5	559					
	Bamboos (whole and pieces)	..	..	..	7,786	..	300	300	..	
	Karyas to be sold as firewood	..	..	..	2,775	..	100	100	..	
	Total	..	..	56	..	..	50,400	50,344	..	
South Canara	Teak	33	666¼	900	..	..	..	..	900	
	Blackwood	3	35½	43	22	417	589	546	..	
	Vengai	2	39	34	4	82	71	37	..	
	Miscellaneous	73	1,518¼	1,015	68	1,584	1,235	220	..	
	Total	111	2,259	1,992	94	2,083	1,895	..	97	
Grand Total.		TONS. LB.			TONS. LB.					
	Sandalwood	15 402½	..	2,211	11 2,142½	..	2,299	..	..	
	Teak logs and poles	1,314 0	9,670¾	7,468	3,274	11,556	8,307	..	..	
	Teak saplings	142 0	..	56	49,823	..	45,000	..	..	
	Blackwood	313 0	4,779½	2,213	285	2,719	1,164	..	..	
	Junglewood	3 0	78	341	..	..	383	..	..	
	Bamboos	..	..	..	7,786	..	300	..	..	
	Firewood	345 360	..	573	432 1,120½	..	816	..	..	
	Minor produce	0 726	..	17	1 11	..	3	..	..	
	Miscellaneous timbers, including vengai.	2,549 0 NO. 6	31,368¾	3,140	398 3,250 0	1,750¼	6,655 71	..	..	
	Total	..	..	16,019	..	..	64,927	48,908	..	

Annual Form No. 73-B.

Forest Department, Madras, Southern Circle.

Abstract showing the Value of Live Stock, Stores, Tools and Plant, for the year 1886-87.

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		No.	Value.	No.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Chingleput	Surveying instruments	2	13	4	91	78	..	
	Tools	6	292	97	353	61	..	
	Furniture	11	91	23	284	193	..	
	Total ..	19	396	124	728	332	..	
North Arcot	Surveying instruments	27	701	30	839	138	..	
	Machinery	2	59	2	56	..	3	
	Tools	635	983	667	914	..	69	
	Furniture	67	254	68	265	11	..	
	Buildings	39	3,005	40	3,906	901	..	
	Total ..	770	5,002	807	5,980	978	..	
South Arcot	Surveying instruments	17	605	17	605	..	..	
	Machinery	4	76	7	256	180	..	
	Tools	267	154	336	208	54	..	
	Furniture	117	747	127	800	53	..	
	Miscellaneous	416	758	420	941	183	..	
	Buildings	9	2,365	9	2,365	..	..	
	Live stock	2	20	2	20	..	..	
	Total ..	832	4,725	918	5,195	470	..	
Salem	Surveying and other instruments	33	252	43	811	559	..	
	Tools	125	382	125	382	..	..	
	Furniture	15	91	16	115	24	..	
	Miscellaneous	7	28	7	28	..	..	
	Total ..	180	753	191	1,336	583	..	
Trichinopoly	Surveying and other instruments	3	55	4	307	252	..	
	Tools	479	621	715	788	167	..	
	Furniture	41	313	45	353	40	..	
	Buildings	12	1,415	13	1,565	150	..	
	Miscellaneous	85	223	133	549	326	..	
	Live stock	4	140	12	538	398	..	
	Total ..	624	2,767	922	4,100	1,333	..	

Abstract showing the Value of Live Stock, Stores, Tools and Plant, for the year 1886-87—*continued.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		No.	Value.	No.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Tanjore	Surveying and other instruments	19	..	19	..	..	..	
	Tools	206	..	206	..	..	..	
	Furniture	20	..	20	..	..	..	
	Miscellaneous	20	..	20	..	..	..	
	Buildings	2	30	4	280	250	..	
	Total ..	268	30	269	280	250	..	
North Coimbatore ..	Surveying and other instruments	10	51	10	51	..	..	
	Tools	710	..	758	328	328	..	
	Furniture	142	..	170	47	47	..	
	Buildings	10	..	19	1,270	1,270	..	
	Total ..	872	51	957	1,696	1,645	..	
South Coimbatore ..	Surveying and other instruments	36	..	36	..	..	..	
	Tools	380	..	380	..	..	..	
	Furniture	146	..	152	24	24	..	
	Miscellaneous	7	..	7	..	..	..	
	Buildings	31	..	..	..	..	..	
	Live stock	1	..	..	..	..	..	
	Total ..	601	..	575	24	24	..	
Madura	Surveying instruments	21	439	21	439	..	..	
	Machinery	1	18	1	18	..	..	
	Tools	155	240	82	197	..	43	
	Furniture	69	85	69	85	..	..	
	Buildings	55	2,560	62	3,452	892	..	
	Total ..	301	3,342	235	4,191	849	..	
Tinnevelly	Surveying instruments	25	322	27	533	211	..	
	Tools	234	88	231	243	155	..	
	Furniture	248	1,291	248	1,291	..	..	
	Buildings	63	3,847	63	3,847	..	..	
	Total ..	570	5,548	569	5,914	366	..	

Abstract showing the Value of Live Stock, Stores, Tools and Plant, for the year 1886-87—*continued.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		No.	Value.	No.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Malabar (Wynaad and Pálghat).	Surveying and other instruments	8	270	13	406	136	..	
	Tools	11	205	11	205	..	..	
	Miscellaneous	32	192	32	192	..	..	
	Live stock	15	10,429	16	10,406	..	23	
	Total	66	11,096	72	11,209	113	..	
Malabar (Nilambúr)	Surveying instruments	2	..	2	..	..	..	
	Machinery	12	44	13	54	10	..	
	Tools	533	5	537	223	218	..	
	Furniture	27	..	34	149	149	..	
	Buildings	10	74	12	386	312	..	
	Building materials	6,000	59	..	..	..	59	
	Miscellaneous	91	314	136	531	217	..	
	Total	..	496	..	1,343	847	..	
South Canara	Surveying instruments	18	..	44	..	..	..	
	Tools	312	..	335	..	..	..	
	Machinery	1	..	1	..	..	..	
	Furniture	59	..	82	..	..	..	
	Buildings	12	..	12	..	..	..	
	Miscellaneous	254	..	252	..	..	..	
	Total	656	..	726	..	..	..	

Abstract of No. 73—B.

Chingleput	....	19	396	124	728	332	..	
North Arcot	....	770	5,002	807	980	978	..	
South Arcot	....	832	4,725	918	5,195	470	..	
Salem	....	180	753	191	1,336	583	..	
Trichinopoly	....	624	2,767	922	4,100	1,333	..	
Tanjore	....	268	30	269	280	250	..	
North Coimbatore	....	872	51	957	1,696	1,645	..	
South Coimbatore	....	601	..	575	..	..	..	
Madura	....	301	3,342	235	4,191	849	..	
Tinnevelly	....	570	5,548	569	5,914	366	..	
Malabar (Wynaad and Pálghat).	....	66	11,096	72	11,209	113	..	
Malabar (Nilambúr)	....	..	496	..	1,342	846	..	
South Canara	....	656	..	726	..	..	..	
	Total	5,759	34,206	6,365	36,971	7,765	..	

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of livestock in Southern Circle, during the year 1886-87.

PART I.

Elephants in possession of the Reporting Officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
		Elephants.		Rs. A. P.	
Malabar (Wynaad and Pálghat).	1. Chloe	Purchased in January 1878.	Per head..	33 9 3	
	2. Phyllis				
	3. Lakshmi	Transferred from Anaimalais in May 1881.			
	4. Sankara				
	5. Ranee	Captured in June 1885 ..			
Malabar (Nilambúr).	1. Vixen	Transferred from Wynád in 1882.			
	2. Peyroo				
	3. Sampson	Purchased from Mr. Morgan in 1884.			
	4. Eva				
	5. Theebaw	Captured on 3rd January 1886.	Per head..	39 11 3	
	6. Lucy	Captured on 15th February 1886.			
	7. Juno	Captured on 17th February 1886.			
		Cattle.			
South Arcot ..	1. Vellian. 2. Karuppan. Buffaloes.	Purchased in November 1885.	Per head..	4 10 9	
Trichinopoly ..	Six pairs of bullocks ..	Purchased in April 1885 and April 1886.	Per head ..	4 13 8	
				7 4 2	
South Coimbatore.	One bullock	Transferred from the late J.C. Department during 1882-83.			
Madura ..	One pair of Kodaikanal depôt bullocks.	Purchased in the local market in April 1885.	Per head..	11 0 5	
Malabar (Wynaad and Pálghat).	Ten Coorg buffaloes ..	Purchased in 1884-85 ..	Per head ..	1 2 3	

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
		Elephants.		Rs. A. P.	
Malabar (Wynaad and Pálghat).	1. Jumboo*	Captured 4th April 1886.	Per head..	17 11 9	
	2. Juno†	Do. 1st do. ..			
	3. Maharajah‡	Do. 18th do. ..			
	4. Pokri	Do. 1st do. ..			
Malabar (Nilambúr).	W. Juno§	Purchased 15th December 1886.		21 12 0	
		Cattle.			
South Arcot ..	....	....	..	..	
Trichinopoly ..	4 pairs of bullocks ..	April 1886	Per head ..	4 13 8	
South Coimbatore.	....	....			
Madura ..	1 pair of Navinipatti garden bullocks.	Purchased on the 31st March 1886.	Per head ..	1 12 0	
Malabar (Wynaad and Pálghat).	....	....	..	..	

* Maintained up to 31st March 1887. † Maintained for 8½ months.
‡ Maintained for 5 months. § Maintained for 3 months and 17 days.

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		How disposed of.
		Elephants.			
Malabar (Wynaad and Pálghat).	1. Pokri *	Captured on the 1st April 1886.	Per head..	18 4 8	
	2. Juno †				
Malabar (Nilambúr).	.....	....	..	..	
		Cattle.			
South Arcot ..	....	....	..	..	
Trichinopoly ..	....	....	..	..	
South Coimbatore.	....	....	..	..	
Madura ..	....	....	..	..	
Malabar (Wynaad and Pálghat).	1 Coorg buffaloe ‡ ..	Purchased in 1884-85 ..	..	9 0 0	

* Died on the 2nd September 1886. † Transferred to District Forest Officer, Nilambúr, on the 15th December 1886.
‡ Died in September 1886.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE NORTHERN CIRCLE, MADRAS,

FOR THE YEAR 1886-87.

CHAPTER I.

Introductory Remarks.

The chief works of the year under report have been, as in the preceding years, the inspection and selection of forests for reservation. Settlement has also progressed well in some districts. The chief work done was as follows:—

Ganjam.—Selection of village forests in the Goomsur taluk by the General Deputy Collector, assisted by the District Forest-officer Mr. A. W. Lushington.

Godávari.—Selection of 11 blocks for reservation in different taluks by Mr. J. S. Battie.

Kistna.—Selection of reserves in the mangrove forests of the Kistna delta by Mr. G. Homfray.

Cuddapah.—Final settlement of 10 blocks under section 16 of the Forest Act by Mr. A. W. B. Higgens, C.S., besides the issue of proclamations for 56 new blocks under section 16.

Kurnool.—Good progress of forest settlement work by Mr. D. Jagannadha Row Pantulu, one of the newly appointed Special Forest Settlement-officers.

Anantapur.—Selection of hill forests for reservation in Dharmavaram, Anantapur, Gooty and Tadpatri taluks by Mr. F. A. Lodge, and settlement of some of the forests already selected.

Nílgiris.—Completion of settlement work, except in Paranginád and Ootacamund settlements.

2. The rates of seigniorage on timber and other forest produce sanctioned in G.O., dated 23rd August 1886, No. 733, Revenue Department (Board's Proceedings, dated 18th September 1886, Forest No. 499), have come into force during this year.

3. Timber transit rules proposed in Board's Proceedings, Forest No. 609, of 8th November 1886, are still under reference and discussion. Draft rules have been passed for Bhadráchalam and Rékapalle in Godávari.

4. Special rules to regulate hunting and fishing in the Nílgiri reserved forests were sanctioned in G.O., No. 1070, Revenue, dated the 6th December 1886 (Board's Proceedings, Forest No. 6, dated 12th January 1887).

5. The area of forests in the Northern Circle was increased by 637 square miles, the changes being as follows:—

											sq. miles.
A.	Reserved forests under Act V of 1882					...	...	...	...	...	+ 372
B.	Do.	do.	under previous rules			...	...	...	...	...	— 15
C.	„	„	Leased forests	...	...	...	...	...	...	...	...
D.	Reserved lands	...	...	...	...	...	...	...	...	...	+ 280
E.	Other forests	...	...	...	...	...	...	...	...	...	...
F.	Unclassed forests and waste lands					...	...	...	...	...	...
									Total	...	+ 637

The following statement gives the details for 1886-87 :—

Class of forest.	Area on 31st March 1886.	Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1887.	Source or coure of increase and decrease.
A. Reserved forests under Act V.	102	372	..	+ 372	474	15 square miles from B. 328 from D, 29 from F.
B. Reserved forests under previous rules.	802	..	15	— 15	787	15 square miles to A.
C. Leased forests	198	..	..	..	198	
D. Reserved lands	3,558	608	328	+ 280	3,838	328 square miles to A, 608 from F.
E. Other forests	..	..	..	..	..	
F. Unclassed forests and waste lands.	..	..	..	..	..	29 square miles to A and 608 to D.
	4,660	980	343	+ 637	5,297	

Chapter II.—Areas and Boundaries.

6. Form No. 59 A shows the area of forests reserved under section 16 of the Forest Act. It will be observed that the area at the commencement of the year was 65,552 acres, that 237,838 acres were since added in Nellore, Cuddapah, Anantapur and Nílgiris, making the total at the end of the year 303,390 acres or 474 square miles.

7. Form No. 59 B is omitted this year also, as it is the same as that published with the report for 1884-85, with the exception of the following areas transferred to 59 A.

Districts.	Forest.	Acres.	
Anantapur	Gooty	331	Transferred in 1885-86.
Nílgiris	Benne	10,317	
	Ootacamund plantation	447	
	Coonoor	235	
Nellore	Ramapatam	39	Transferred in 1886-87.
Cuddapah	Kodur	5,266	
	Kamalapuram... ...	263	
	Gadikota	4,480	

8. The list of forests proposed for reservation under section 4 of the Forest Act during the year was as follows :—

Number.	District.	Name of Forest.	Notification number and date.	Number.	District.	Name of Forest.	Notification number and date.
		Amagondapalium.				Addition to Kullar Reserved Forest No. I.	
		Dokulkonda.					
		Yerrakonda.					
		Gootoor.				Addition to Kullar Reserved Forest No. II.	
		Penukonda hill.					
41	Anantapur.	Somandapally.	Notification No. 166 of 8th May 1886.			Benhope No. II.	
		Neiradykonda.				Kodamalai.	
		Mallappakonda.				Jakanare slopes.	
		Mallakaveimlakonda.				Kallur.	
		Nyalakota.				St. Catharine's Fall.	
		Yerlampalle.				Constantia.	
		Honnathalai (South).				Tuttapolliam.	Notification No. 168 of 8th May 1886—*cont.*
		Bettumand (South).		42	Nílgiris—*cont.*	Gudakalhalla.	
		Rallia.				Bettu Nos. 1 and 2.	
		Little Rallia.				Kunnavara Reserve (addition).	
		Rallia Shola.				Kanavatti.	
		Naduhatti.				Deepdale.	
42	Nílgiris.	Longwood Reserve (addition).	Notification No. 168 of 8th May 1886.			Gudakal.	
		Halakaray.				Clyffe.	
		Teppakuchi.				Yercaudhalla.	
		Billithittu.				Konakarai slopes.	
		Dolphin.				Shamrock.	
		Guernsey.					

Number.	District.	Name of Forest.	Notification number and date.
42	Nilgiris—*cont.*	Bikkehatti. Ittakal Nos. 1 and 2. Mavada. Kuttada Nos. 1 and 2. Vagapanai. Dodabetta. Sundatti. Kunshola. Kirkanara No. I. Do. No. II. Kelatti. Hadumund. Denad. Uppatti. Doddakavu. Ullavanadmund shola. Sinnattu shola. Madanad. Kodanad valley. Nadukaduhalla. Nedugula. Longwood Reserve (addition).	Notification No. 168 of 8th May 1886—*cont.*
43	Do. ..	Addition to Moyar Reserve.	Notification No. 281 of 7th July 1886.
44	Cuddapah.	Kondasankesula. Dabbudapalle. Dhodiyam. Malamidikambaladinne. Penner. Gandikota. Yamavaram. Kosinepalle. Nidujubi. Kondapuram. Bhanakotamala. Mallela. Kommaddi. Animela. Tummalur. Gonamakalapalle.	Notification No. 304 of 24th July 1886.
45	Do. ..	Nigadi. Goduvelagala. Vellichelamalla. Mudupalajuvi. Mallaiakonda. Yeddalavaripalli. Pulikonda. Potapolu. Mudimadugu and Horsleykonda. Avalakonda. Kukarazupalle. Tarigonda. Nurukupalakonda. Gutapaliem. Doddipalle. Sorakayalapeta. Peddamallela. Marella. Talakona. Bhakarapet.	Notification No. 305 of 24th July 1886.
46	Do. ..	Turupukonda. Kokaletikanama. Kothur. Gotimanikona. Cheyer. Badugantapalle. Yerrakonda. Kalasapad. Sancharla. Malliamkonda (addition). Chiyavaram. Avalapenta. Mushtiyeru. Kodivengamabavi. Marriutla. Tippayapalli. Mudumpad slopes. Wongimalla. Redlacheruvu. Ganganapalle.	Notification No. 306 of 24th July 1886.
47	Godávari ..	Devancheruvu ..	Notification No. 308 of 26th July 1886.
48	Do. ..	Coringa	Notification No. 385 of 2nd November 1886.
49	Nilgiris..	Fernhill shola. Additions to Fairlawns Block No. I. Addition to Doddabetta No. II. Addition to Doddabetta Reserved Forest. Addition to Doddabetta No. II. Do. do. Bilikal road.	Notification No. 428 of 8th November 1886.
50	Godávari	Bendamurlanka. Narsápur.	Notification No 416 of 10th November 1886.
51	Do. ..	Ragoovapatnam. Sullanka. Anantaveram. Totapalle. Oligogola.	Notification No. 448 of 23rd November 1886.
52	Anantapur.	Kalyandrug (North). Do. (South). Ramgherry. Bhadrapoor.	Notification No. 8 of 22nd December 1886.
53	Kistna ..	Lakshmipuram. Do. Bandar Fort Reserve. Palakayatippa. Sorlagundi. Nachugunta. Yelichetidibba. Lankavanidbba. Kothapalem.	Notification No. 91 of 8th February 1887.
54	Nellore ..	Chagollu. Buddepudi. Chakicherla. Ramapatam. Ravur. Mocherla Chalamcherla. China Laterapi. Gudlur.	Notification No. 96 of 15thFebruary 1887.
55	Do. ..	Rudrakota. Maddurpad. Narayanapuram. Kavali. Zammalapalem. Zaladanki (East). Do (West). Gattupalli. Kesavaram. China Annalur. Tummalapenta (North). Tummalapenta (South). Gollapalem. Tummalapenta (West) Talapalem. Bitragunta. Nagalavaram. Zakkepalli, Gudur. Chamadala. Manubolpad. Dundigam. Dharmavaram.	Notification No 97 of 15th February 1887.
56	Do. ..	Yellasari. Velliped. Ipuru. Tamenapatam (West). Momidi. Aukulapatur. Pidatalapudi. Kadived (North). Do. (South). Vodur. Nellaballi.	Notification No. 98 of 15th February 1887.

Number.	District.	Name of Forest.	Notification number and date.	Number.	District.	Name of Forest.	Notification number and date.
56	Nellore —*cont.*	Chillakur. Gudur Venodu. Vedicherla. Vindur. Madamanur. Idagali. Sarvepalli. Kanupur (East). Do. (West). Cherukumudi. Kottapatam.	Notification No. 98 of 15th February 1887. *cont.*	58	Nellore— *cont.*	Chikavolu. Cherlopalli. Potukonda. Guttikonda. Marellakonda. Veminabhi. Nellapalli. Kakerlakonda. Yerragondas. Vavintaparti. Kummaragunta. Pulikollu. Mogallur. Duggunta. Podalakur. Birdavolu. Vadlapudi. Marupur. Toderu. Nernur. Chittaluru. Ayyagaripalem.	Notification No. 100 of 15th February 1887— *cont.*
57	Do. ..	Marripad. Turimerla. Dagadarti. Kottapalli. Vavveru. Amancherla (West). Do. (East). Dontali. Chemudugunta. Kakutur. Nellore. Kondlapudi. Kandamur. South Mopur.	Notification No. 99 of 15th February 1887.	59	Do. ..	Telugurayapuram. Turpukambhampadu. Chejerla. Shrikolanu.	Notification No. 101 of 15th February 1887.
58	Do. ..	Turpupundla. Sydapuram. Chaganam. Vutukur. Turimerla. Tummalatalpur. Marlapudi. Potegunta. Paluru.	Notification No. 100 of 15th February 1887—	60	Anantapur.	Dadithota. Yellutla. Chillawaripalle. Konakuntla. Nairjampalle. Yelanur. Yadaki.	Notification No. 134 of 28th February 1887.

9. *Demarcation.*—The work proceeded well in Ganjam, Godávari, Kistna, Cuddapah, Bellary and Nílgiris, while in Kurnool and Anantapur the progress was moderate, and almost nil in Nellore and Vizagapatam.

The following statement shows the extent of demarcation carried out in each district together with the cost incurred :—

District.	Miles.	Posts.	Cost.	Rate per mile.
			Rs.	Rs. A. P.
Ganjam	380	..	3,128	8 3 9
Vizagapatam	..	..	..	..
Godávari	166	..	1,884	11 5 7
Kistna	87	345	1,833	21 1 [illegible]
Nellore	..	..	..	..
Cuddapah	163	2,699	5,738	35 3 2
Kurnool	28	160	714	25 8 0
Bellary	162	249	1,227	7 12 2
Anantapur	75	273	1,697	22 10 0
Nílgiris	129	3,481	2,937	22 12 3

The cost of demarcation varies not only from district to district but also in the different parts of the same district, for it depends so much upon the nature of the tract, number and description of cairns or posts erected, width of line cut and the value of labor.

In Ganjam the outer boundaries of 10 reserves have been cleared, except where they touch on zemindaries, and in several other reserves some slight alterations have been made. Posts have not been erected in all places yet.

In Vizagapatam some demarcation was done in Sarvasiddhi taluk, but it had to be stopped as Government have limited the reserves to 5,000 acres in that taluk. Nothing has been done in regard to the few forests in the Golgonda taluk, as the Revenue Survey Department are demarcating them after settling the numerous disputes between the Government and private forests adjoining them.

In Godávari 15 reserves have been demarcated to the extent of 166 miles at a cost of Rs. 1,884, or Rs. 11-5-7 per mile. The breadth of the line cut was 10 feet

and boundary pillars were put up at every turn, but where the line was straight enough none were erected. In the Bhadráchalam taluk the lines are pretty long and straight, but it is not easy to make them so in the lower taluks.

In Kistna lines of 11 yards width were first cut, but Mr. Homfray reduced the breadth to 3 yards and saved the unnecessary expense.

In Cuddapah many of the blocks reserved and of those proposed for reservation have been demarcated with cairns of different sizes, and it is reported that these cairns where near enough will serve as a permanent boundary if a stone or post bearing the number of the mark is let in.

In the Kurnool district, Nandyál and Nandikótkur ranges have been completed on contract as before, also the Sirvél range, except 25 miles. It is reported that the lines cut and cleared in the previous years have been overgrown and had therefore to be recleared this year in some places (Veligondahs) at the expense of Government and in others—Uyalawada and Cumbum ranges—by the villagers in return for the timber cut on the lines.

In Bellary the cart-track of 10 feet along the boundary of the Ramandrug range has been extended by $1\frac{1}{2}$ miles at a cost of Rs. 50, and Rs. 45 was spent in repairing other parts of the same track where it was washed away by rains. Another track of same breadth was commenced in the north-eastern range, and a mile-and-a-half was completed at a cost of Rs. 101-14-5.

In Anantapur, Amagondapaliem boundary was completed, and the remaining portion of the Muchukota forest boundary was cleared, and a patrol path made all round except where the boundary is likely to be altered. The Anantapur plantation was partially demarcated by a ditch 1,299 yards in length. Fencing was also commenced during the year with a view to forming a live hedge; bamboo seed was sown along a portion of the Kottakota boundary line, and dry stone walls three feet high were erected along 6, 5 and $1\frac{1}{4}$ miles of Kottakota, Gootoor and Amagondapaliem forests respectively; the cost varied from 96 to 110 rupees a mile.

In Nílgiris, Ootacamund Mukurty reserve was completely demarcated during the year. The demarcation work in Sígúr, commenced in 1885-86, has been completed. In the other ranges the existing boundaries were repaired and kept in order. The boundary pillars are regularly numbered by paint and are put up sufficiently strong and conspicuous. The boundary lines in some places have been made to serve as inspection paths and fire lines.

10. *Settlement.*—The work has not progressed well in Ganjam, and this is reported to be due to the constant changes in the Forest Settlement-officers in Berhampore, while in Goomsur a large number of claims had to be opposed by the District Forest-officer. In Godávari the work is in progress in Bhadráchalam, 12 blocks having been completed, and in the lower taluks proclamations have been issued for the reserves in the Tuni division.

In Kistna 5 reserves have been finally settled by the Sub-Collector, but final notifications under section 16 could not be sent up till after the close of the year.

Previous to January 1887 the settlement work in Nellore was entrusted to the Divisional officers, but as they had other duties to attend to, the progress in this respect was slow, so a special officer, Mr. Sarabhalingam Naidu, was appointed, and he has now completed the settlement of many of the reserves.

In Cuddapah the progress under Mr. Higgens was very satisfactory; 10 blocks, aggregating $269\frac{1}{2}$ square miles, having been settled and notified under section 16 besides publication of proclamations for 56 new blocks.

In Kurnool and Bellary much work was done by Mr. D. Jagannadha Row. The final notifications of Nallamalai reserves in the former district await the result of appeal in certain cases to the District Court.

In Anantapur the progress was but slow owing to the Divisional officers having to do other duties of the Revenue Department, while in the Nílgiris the

settlement has been nearly finished by Mr. A. E. Castlestuart Stuart except in Merkunád and Ootacamund settlements.

Progress of settlement.

District.	Areas finally settled up to 31st March 1886.	Areas notified under section 4 up to 31st March 1886 but not settled.	Area notified under section 4 in 1886-87.	Total of 3 and 4.	Deduct areas settled in 1886-87.	Balance to be settled.
1	2	3	4	5	6	7
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Ganjam	..	704	..	704	..	704
Vizagapatam	..	..	..	..	..	..
Godávari	..	530	117	647	..	647
Kistna	..	611	79	690	..	690
Nellore	..	212	262	474	½	4,73½
Cuddapah	2½	1,358½	484	1,842½	269½	1,573
Kurnool	..	1,677	..	1,677	..	1,677
Bellary	..	198	..	198	..	198
Anantapur	5½	18	147½	165½	8	157½
Nílgiris	94	182½	32	214½	94	120½
Total ..	102	* 5,491	* 1,121½	* 6,612½	372	6,240½

* These areas are all approximate only.

11. *Reserved Lands.*—The list of reserved lands is given in form No. 59 C. It shows that the area at the commencement of the year was 3,558 (not 3,557) square miles, that during the year 608 square mile were added in Kistna, while in Cuddapah, Anantapur and Nílgiri districts 328 square miles were transferred to 59 A, these areas having been finally settled and declared as reserved forests. The total area of the reserved lands at the end of the year under report was therefore 3,838 square miles.

12. *Village Forests.*—The proposals regarding the constitution of village forests for Paranginád, Merkunád, Kundahnád and Todanád were submitted to the Board in February 1887 and the papers have since been returned to the Collector for some explanation. The selection of similar forests in other districts has not advanced, as the District Forest-officers are fully engaged in the selection and settlement of reserve. Mr. Gamble's suggestions on the subject are contained in his letter, No. 79, dated 6th April 1887, in Board's Proceedings (Land Revenue), Forest No. 233, dated 26th April 1887.

13. *Leased Forests.*—The leased forests in this circle are—

	ACRES.
1. Mudumalai in Nílgiris	87,285
2. Sandúr in Bellary	40,000

The results of working in these are recorded under proper heads and statements further on.

14. *Under Settlement.*—There are not sufficient details in the annual reports to show as required by the Government of India in their review on the Madras reports for 1884-85 (*vide* G.O., No. 542, Revenue Department, of 1st July 1886). The annexed is a rough classification :—

Circle.	Reserved forests under Act V of 1882.	Reserved forests under previous orders.	Leased forests.	Reserved lands.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Northern	474	787	198½	3,838

CHAPTER III.—SURVEYS, WORKING PLANS AND PLANS OF OPERATIONS.

15. *Surveys.*—Forest survey work has not been carried on in any of the districts except in Ganjam where the District Forest-officer reports that 9 reserves were completed by a surveyor employed from September 1886 to January 1887. In other districts this branch of work has not received attention, partly for want of proper establishment and partly pending selection and final settlement of reserves which take up all the time of District Forest-officers. However, to get through the work generally maps published by the Survey Department have been utilised as far as available. Reserves and other forests have been marked on all district maps (except Vizagapatam) on the 8 miles = 1 inch scale and sent from this office to Board and Collectors. In the Nílgiris the forests have been marked on village maps, and thus a complete record is made out.

16. *Working Plans.*—In paragraph 25 of the last year's report, Mr. Gamble fully explained the reasons for not introducing "permanent working plans." As the Acting Conservator holds the same opinion as his predecessor, he considers it needless to repeat them. During the year under report, Mr. Gamble has prepared preliminary working plans for the reserves in the Nílgiri district in a very full and exhaustive inspection note, dated the 6th April 1887, which will prove a most useful guide for forest operations. It is too long to quote in this report. Mr. Gamble proposes to divide the district thus :—

Coonoor Sub-Division.	*Head-quarter's Sub-Division.*
(1) Coonoor Range.	(5) Naduvatam Range.
(2) Melúr ,,	(6) Sígúr ,,
(3) Kotagiri ,,	(7) Mudumalai ,,
(4) Ootacamund ,,	

A further sub-division is proposed for Sigúr and Mudumalai. Mudumalai and Sandúr leased forests are being worked under the preliminary plans already made and mentioned in the report last year, and also the sál forests in Goomsur and casuarina plantations in Nellore.

17. The yield of the Sandúr leased forests was as follows :—

Teak poles			194
Poles, rafters, posts, &c.			No. 1,474
			cart-loads 155
Bamboos			35,150
Firewood			Tons 1,286
Charcoal	68 carts	=	,, 34
Brushwood	19 ,,	=	,, 9½
Myrabolams	177 maunds	=	,, 2
Tangedu bark	48 carts	=	,, 22½
Grass	28 ,,	=	,, 14
Iron ore	92 ,,	=	,, 46
Red earth	58 ,,	=	,, 29
Limestone	9 ,,	=	,, 4½

and some gums, fruits and miscellaneous barks.

18. The result of the preliminary working plan of the Sandúr leased forests was—

Block.	Compartment number.	Area.	Wood fuel.	Creeper fuel.	Total.
		ACRES.	TONS.	TONS.	TONS.
Ramandrug	10	817	833	256	1,089
North-east range ..	1	847			
Donemalai	2	606			
Total ..	..	2,270	..	..	1,089

or about half a ton per acre. As explained in paragraph 26 of the last year's report, the thinning should have been completed in the first two compartments of each block to adhere to the proposed working plan. The Collector reports that it was found impossible to catch up the lost ground, but states that due care was taken to remove only badly grown and unsound trees and creepers.

19. In the Ballipalle working circle in Cuddapah compartments 3 *c* and 7 *b* were cut over. The result of the cuttings was—

—	Area.	Engine fuel.	Small fuel.	Total.
	ACS.	TONS.	TONS.	TONS.
3 *c*.	35	200	179	379
7 *b*.	22	117	72	189
Total ..	57	..	..	568

or about 10 tons per acre. The outturn in both compartments was poor, partly due to the large proportion of deciduous growth mixed with the ever-green forest and partly to the proportion of standards left being larger than usual. The cuttings of the last five years have given therefore—

—	Acres.	Tons.	Per Acre.
1882-83	50	562	11¼
1883-84	55	907	16½
1884-85	46½	1,002	21½
1885-86	58	915	16
1886-87	57	568	10

or an average of 15 tons per acre.

20. The following tabular form gives the yield of the several compartments in Nilgiris cleared during the year according to the preliminary working plan of operations :—

Name of Reserve.	Number of block.	Name of compartment.	Area felled.	Age when felled.	Yield.		
					Loads.	Branchwood.	
						Head loads.	Bullock loads.
1	2	3	4	5	6	7	8
Ootacamund Range.			ACS.	YEARS.			
1. Aramby	II	4	6	20	809	..	..
2. Do.	IV	6	3¾	9	1,390	..	..
3. Cairn Hill	IX	7	6	8	1,074	..	..
4. Baikie	..	3	12	11	2,460	..	..
5. Governor's Shola (Andy)	..	..	..	12	505	..	..
6. Do. do.	..	2	12	13	350	..	..
Coonoor Sub-division.							
1. Coonoor Peak Reserve	..	39	2·0	13	340	1,279	260
2. Do. do.	..	27	5·2	13½	1,337	1,408	549
3. Do. do.	..	16	4·9	13½	305	1,155	281
4. Do. do.	..	34	5·5	13½	1,788	768	104
5. Do. do.	..	5	2·0	14	290	..	..
6. Do. do.	..	40	4·5	14	505	800	103
7. Do. do.	..	36	6·1	14	482	569	200

Name of Reserve.	Standards left.		Belt.		Total in tons.
	Number of trees.	Probable yield.	Number of trees.	Probable yield.	
	9	10	11	12	13
Ootacamund Range.					
1. Aramby	..	..	..	..	361
2. Do.	..	..	..	..	621
3. Cairn Hill	..	..	..	..	479
4. Baikie	..	..	..	..	1,098
5. Governor's shola (Andy)	..	..	..	..	225
6. Do. do.	..	..	..	..	156
Coonoor Sub-division.					
1. Coonoor Peak Reserve	116	174	99	149	348
2. Do. do.	307	461	85	128	940
3. Do. do.	172	258	..	..	302
4. Do. do.	355	533	42	63	1,091
5. Do. do.	..	..	..	..	130
6. Do. do.	185	278	170	255	491
7. Do. do.	225	338	135	202	487

Chapter IV.—Protection and Improvement.

21. (*a*) *Establishments, Ranges and Beats*—(1) *Superior staff.*—This consisted at the close of the year of—

One Conservator ... ... Mr. Gamble.
Four Deputy Conservators—
Mr. Higgens, C.S. ... ... Cuddapah.
„ Vincent ... ... Nellore.
„ Hooper ... ... Kurnool.
Colonel Jago ... ... Nílgiris.
Seven Assistant Conservators—
Mr. Brougham ... ... Bellary.
„ A. W. Lushington ... ... Ganjam.
„ Battie ... ... Godávari.
„ Homfray ... ... Kistna.
„ Lodge ... ... Anantapur.
„ Sweet ... ... Vizagapatam.
„ P. M. Lushington ... ... Kurnool.

The only changes of any note during the year were that Mr. Leresche died in Kurnool, Mr. Hooper returned from furlough in December 1886, Mr. Homfray acted as Examiner of Forest Accounts till 21st November 1886, then had charge of Nellore for about a month and half going to Kistna in January 1887. Mr. P. M. Lushington joined the service in December 1886.

22. (2) *Subordinate staff.*—The staff was as follows at the end of the year :—

District.	Office Establishments.		Forest Establishments.				Total.
	Clerks.	Peons.	Sub-Assistant Conservators.	Forest Rangers.	Foresters.	Forest Guards.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Conservator's office	320	56	..	..	..	..	376
Ganjam	45	58	..	180	45	122	450
Vizagapatam	35	21	..	50	60	103	269
Godávari	45	52	150	60	50	200	557
Kistna	65	58	200	100	95	282	800
Nellore	100	64	..	130	130	330	754
Cuddapah	100	88	150	315	190	428	1,271
Kurnool	75	58	..	150	115	206	604
Bellary	45	33	..	50	100	240	468
Anantapur	45	27	..	50	100	216	438
Nílgiris	110	46	75	130	165	244	770
Total ..	985	561	575	1,215	1,050	2,371	6,757
Forest School, or not yet employed ..	..	..	..	50	30	..	80
Balance saved	..	122	—75	65	80	..	192
Grand Total sanctioned ..	985	683	500	1,330	1,160	2,371	7,029

In June 1886 three students were sent to the Forest School, Dehra Dun—one ranger and two foresters; of these latter one returned on account of illness.

23. *Ranges and Beats.*—No alteration has been made in the ranges and beats except in Nílgiris where the re-arrangement is as follows from 1st January 1887 :—

	ACRES.	SQ. M.
I. Coonoor Sub-division—		
1. Coonoor range	22,720	35
2. Melúr	53,936	84
3. Kótagiri range	11,699	18
II. Head-quarter's Sub-division—		
4. Ootacamund range	16,552	26
5. Naduvatam	16,135	25
6. Sígúr	50,682	79
7. Mudumalai	71,182	111
Total ...	2,42,906	= 379½ square miles.

The area of forests in each range or under the control of each Range-officer cannot possibly be given until all reserves are finally settled and surveyed. The areas over which the ranges extend have been roughly calculated on the map for two districts besides the above and are appended below as an example—

Kistna district.			Nellore district.		
Range.	Area.		Range.	Area.	
	ACS.	SQ. MLS.		ACS.	SQ. MLS.
Bezváda	61,099	95	Kanigiri range	34,200	53
Guntúr	21,288	33	Kávali	51,021	79
Sattenapalle	64,663	101	Udayagiri	37,000	58
Vinukonda	108,817	170	Rápúr	94,680	147
Palnád	123,632	193	Nellore	24,280	38
Bápatla	18,569	29	Atmakúr	3,920	6
Bandar	43,246	69	Gúdúr	21,400	43
			Sríharikót	35,710	55
			Casuarina plantations	4,062	6
Total ..	441,314	690	Total ..	306,273	47

24. (*b*) *General protection and breaches of Forest rules.*—Form 63 shows the prosecutions for breach of forest rules. The number of cases filed during the year was 994, adding 66 which were pending at the close of the previous year, the total number prosecuted was 1,060. Of these, convictions were obtained in 657, 300 acquitted, and 103 are pending. The percentage of conviction was as follows :—

Ganjam	59·5
Vizagapatam	68·0
Godávari	75·0
Kistna	71·9
Nellore	34·7
Cuddapah	63·1
Kurnool	67·0
Bellary	45·4
Anantapur	65·3
Nílgiris	74·2
Or on the whole	61·9

25. *Forest fires and fire-protection, Ganjam.*—A great many fires were reported, but the District Forest-officer seems to think that the results are not worse than they were last year; but that the increased number of reports was due to a better method of reporting and to a very large increase in the number of fire watchers.

Vizagapatam.—No detailed report is given.

Godávari.—Five blocks (Rapak, Ramachendram, Tatlunka, Devancheruvu, Kothapili) containing 57,600 acres were taken in hand for fire-protection and no fires occurred in them. Special watchers were employed only for the last two blocks and the rest were looked after by the heads of the surrounding villages. It is reported that Koyas have not come forward for employment in the forests, but that some arrangements will be made.

Kistna.—The result of protection is reported to be good, only 393 acres having been burnt out of 23,040 acres attempted.

Nellore.—Some serious fires occurred before June 1886, which are said to have been more difficult to provide against, owing to the want of settlement of the district boundary. No fires occurred after June.

Cuddapah.—Large areas were attempted, *i.e.*, 123,585 acres with fire-lines and 78,531 acres with watchers, and of these, 86,249 of the former and 68,334 of the latter were saved and the percentage protected was therefore 70 and 87 respectively. The difference is reported to be due to the fact that the areas specially protected are mostly in the drier part of the district and are surrounded by forest which is usually burnt, while the blocks taken under general protection consist of isolated hills or hills where it is not usual to burn the grass.

Kurnool.—No systematic operations have been carried out owing to change of officers; Mr. Hooper having joined the district in December 1886, it was too late to make any arrangement.

Bellary.—Large fires occurred; areas attempted were 63,654 acres by special and 107,877 by ordinary staff, and of these 10,070 and 31,280 respectively were burnt. There were three fires in the Rámandrug range, two in Donemalai and the north-eastern ranges.

Anantapur.—The results were fairly successful.

Nílgiris.—It is reported that such fires as took place were chiefly in grass lands and that the forests suffered little.

26. *Grazing.*—In Ganjam free grazing was allowed for the greater part of the year, but a restriction was made in notified reserved forests and fuel and fodder reserves towards the close of the year.

In Vizagapatam no restriction was made. In Godávari grazing dues to the amount of Rs. 971 were collected from the Cocanada coast forest only. No restrictions were made elsewhere.

In Kistna the right of grazing was sold.

In Nellore some grazing dues were collected under leases, but the amount is not known as they were erroneously credited to Land Revenue, and adjustment has not yet been made.

In Cuddapah grazing was allowed free over all reserved lands. In the Settigunta reserved forest a large area was open to free grazing. In about 200 square miles of reserved forest half fees were collected, but the result was very small, only Rs. 97 being credited. In the other reserved forests grazing was not permitted, but grass-cutting was permitted free of charge.

In Kurnool the high lands in the Nandikótkur taluk were let out on contract. No restrictions were made elsewhere.

In Bellary grazing fees were collected in the Bellary and Mincheri reserves, Rs. 193-15-0 being realised. Grass from the Sandúr reserves was allowed to be removed on payment, but only a small quantity was taken.

In Anantapur grazing was not allowed in the fire-protected areas, but the free removal of grass was allowed everywhere. From the Muchukota forest alone 15,000 head-loads were removed.

In the Nílgiri district only 4,651 acres of reserved forest were closed against grazing, whereas 29,595 acres were open to grazing on payment of fees. The amount collected was only Rs. 297.

27. *Ensilage.*—In Cuddapah some experiments were made. Two silos were made from funds supplied by the Agricultural Department, one of hill grass, the other of cholam stalks. The former has been opened and the contents were readily eaten by cattle. Another silo 31′ × 12′ × 6′ was dug in the forest at Gadila and filled with hill grass at a cost of Rs. 82. It has not been opened.

Two silos were made 15′ × 10′ × 6′ and filled with prickly-pear. The cost was Rs. 10. It is said in the Cuddapah annual report that this use of the prickly-pear was suggested by the late Commander-in-Chief. Since the rough draft of this report was written three Cuddapah silos have been opened. The grass and cholum silos were very successful, and natives tried them readily and with approval. The prickly-pear silos were a complete failure, as nothing but indigestible fibre remained. It was suggested in another district to sandwick prickly-pear with grass, so as to retain the moist portion of the prickly-pear.

In Bellary a silo 30′ × 12′ × 6′ was made under instructions from the Director of Settlement and Agriculture and filled with two kinds of grass. It has not yet been opened, because the people are so prejudiced against it that they will not try the ensilage.

In Anantapur two silos were made, but have not yet been opened.

28. *Natural reproduction.*—In Ganjam in the Ramba reserve the seedlings were choked up by a growth of bamboo. There is good reproduction in the Kaliamba reserve, the sál five years old seedlings growing about five feet during the year. In the Mojjagodo plantation self-sown teak seedlings are coming on well.

In Vizagapatam it is reported that a marked improvement is seen in the Sarvasiddhi forests, where protection has been adopted though grazing has been still permitted.

As to Godávari, Kistna, Nellore, Cuddapah and Kurnool, no remarks are made.

In Bellary it is reported that a marked improvement is seen in the Sandúr leased forest in the growth of seedlings.

In Anantapur it is reported that seedlings of Yepi (*Hardwickia binata*) have sprung up every year, but died down in the hot weather. Perhaps the cutting of grass has something to do with their disappearance. In Kottakota seedlings of all sorts are springing up.

In the Nílgiris the coppice growth in Aramby, Cairn Hill, Baikie and Governor's Shola has begun well in the compartments felled during the year.

In sholas where the strobilanthes and bushy undergrowth have been removed seedlings are coming up freely. Seedlings are also conspicuous in such sholas as have been treated on the system of a kind of coppice understandard. This system of treatment of sholas is, however, still the subject of much controversy.

In the Mudumalai range seedlings are coming up well in Moyar, Bokkapuram, Northerhay and Singara.

29. *Artificial reproduction.*—In Ganjam mahogany and *soymida febrifuga* seeds both failed. Teak and sál seeds succeeded; the seedlings of the former were sent for trial to the Berhampore fuel reserves, and of the latter to the Kistna district.

In Godávari some additions to the casuarina blocks have been proposed.

In Kistna small plantations have been sold and work concentrated on the larger. Corrections in the areas have been carefully made during the year. Sixty-five acres have been planted during the year. At the close of the year there were 974 acres costing Rs. 17,453 or Rs. 18 an acre against 945 acres costing Rs. 18,684 at the commencement. There were many casualties among trees owing to the drought.

In Nellore serious damage was done by the cyclone. Out of 49,285 casuarina plants put out in baskets at Sriharikót during the year, all but 10,312 were killed out by salt water. The whole southern plantation was abandoned.

Ironwood seedlings were sown at Sriharikót, but out of 2,216 seedlings which alone came up from 5 lbs. of seed, all but 110 were destroyed by salt water during the cyclone.

Mahogany did not succeed well. Out of 700 plants sent from Madras only 450 survive; and from 16 lbs. of seed sown at Sriharikót in October 1886 and March 1887 only 1,243 plants remain.

It is not clearly explained whether the cyclone had anything to do with the failures, but it seems questionable whether mahogany will succeed in sand.

Various other seeds were sown in large quantities with results that *soymida febrifuga* seeds germinated badly, nalla and tella tumma (babul) well.

STATEMENT showing the cost and yield, up to 31st March 1887, of the casuarina plantations in Nellore and Gúdúr taluks.

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1887.	Cost per acre.	Yield up to 31st March 1886.	Approximate return up to 31st March 1886.		Yield during 1886-87.				Approximate return during 1886-87.		Grand total.	
							Rate.	Amount.	Cutting of storm wood.	Clean felling.			Rate.	Amount.	Total of columns 7 and 13.	Total of columns 9 and 15.
										Area.	Tons.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	1	45	1873	10,131	225	344	6	2,064	..	..	..	..	..	..	344	2,064
	Interplanted.		1874													
	2	26	1874	6,907	265	589	..	3,534	..	..	..	..	..	..	589	3,534
	3	30	1875	6,448	215	754	..	4,524	..	..	..	..	..	..	754	4,524
	4	59	1880	3,397	57	19	..	114	366	..	..	366	5	1,830	385	1,944
Dugarázapatnam ..	5	104	1881	4,416	41	30	..	180	232	..	..	232	..	1,160	262	1,340
	1882	4	1882	..	..	..	..	..	20	..	..	20	..	100	20	100
	1883	73	1883	2,795	38	..	..	..	..	..	..	..	..	..	..	..
	1884	60	1884	2,007	33	..	..	..	..	..	..	..	..	..	..	..
	1885	30	1885	977	32	..	..	..	..	..	..	..	..	..	..	..
	1886	60	1886	220	3	..	..	..	..	..	..	..	..	..	..	..
Ebrow's tope	..	19	Resumed by Government under tope rules.			504	..	3,024	..	..	..	..	..	..	504	3,024
Salt tope	..	4	..	..	..	35	..	210	..	..	..	..	..	..	35	210
	1	24	1873	6,004	250	66	..	396	..	24	985	985	..	4,925	1,051	5,321
	Interplanted.		1874													
	2	24	1874	6,536	272	..	..	..	..	24	884	884	..	4,423	884	4,420
	3	32	1875	6,170	192	116	..	696	..	32	690	690	..	3,450	806	4,146
	4	40	1880	3,082	77	5	..	30	69	..	..	69	..	345	74	375
Kottapatam	5	112	1881	4,407	34	..	..	..	188	..	..	188	..	940	188	940
	1882	16	1882	..	..	..	..	..	..	..	..	..	..	..	..	..
	1883	22	1883	906	41	..	..	..	1	..	..	1	..	5	1	5
	1884	37	1884	1,217	32	..	..	..	..	..	..	..	..	..	..	..
	1885	30	1885	664	22	..	..	..	..	..	..	..	..	..	..	..
	1886	25	1886	136	5	..	..	..	..	..	..	..	..	..	..	..
Chattram tope	Resumed by Government under tope rules.					120	..	720	..	..	..	..	..	..	120	720
Pamanji tope						169	..	1,014	..	..	..	..	..	..	169	1,014
	1	41	1873	12,142	247	537	..	3,222	..	..	232	232	..	1,160	769	4,382
	Interplanted.		1874													
	2	59	1874	9,576	162	1,008	..	6,048	..	..	..	..	..	..	1,008	6,048
	3	29	1875	7,878	271	587	..	3,522	..	..	..	..	..	..	587	3,522
Tummenapatam ..	4	64	1880	3,808	59	12	..	72	..	..	..	..	..	..	12	72
	5	139	1881	5,779	26	22	..	132	..	..	..	..	..	..	22	132
	1882	81	1882	83	1	..	..	..	..	..	..	..	..	..	..	..
	1883	68	1883	2,043	30	..	..	..	..	..	..	..	..	..	..	..
	1884	30	1884	997	33	..	..	..	..	..	..	..	..	..	..	..

Statement showing the cost and yield, up to 31st March 1887, of the casuarina plantations in Nellore and Gúdúr taluks—*cont.*

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1887.	Cost per acre.	Yield up to 31st March 1886.	Approximate return up to 31st March 1886.		Yield during 1886-87.				Approximate return during 1886-87.		Grand total.	
							Rate.	Amount.	Cutting of storm wood.	Clean felling.			Rate.	Amount.	Total of columns 7 and 13.	Total of columns 9 and 15.
										Area.	Tons.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Tummenapatam—*cont.*	1885	10	1885	254	25	..	..	..	..	..	..	..	..	..	..	..
	1886	4	1886	120	30	..	..	..	..	..	..	..	..	..	..	..
	..	4	Resumed by Government under tope rules.			94	..	564	..	..	24	24	..	120	118	684
Ootcare	1	32	1875	7,527	238	94	5	470	..	..	..	..	..	..	94	470
	2	32	1880	3,927	123	22	..	110	..	..	..	..	..	..	22	110
	3	84	1881	4,584	54	8	..	40	..	..	..	..	..	..	8	40
Varny	1	40	1873	10,339	258	58	..	290	..	..	..	..	..	..	58	290
	Interplanted.		1874													
	2	40	1874	8,911	223	115	..	575	..	..	..	..	..	..	115	575
	3	40	1875	8,108	202	50	..	250	..	..	..	..	..	..	50	250
	4	40	1880	3,188	80	35	..	175	..	..	..	..	..	..	35	175
	5	80	1881	4,064	50	12	..	60	..	..	..	..	..	..	12	60
	1883	3	1883	73	24	..	..	..	..	..	..	..	..	..	..	..
	1884		1884													
Allipoorem	1	18	1870	8,579	476	147	..	735	..	..	..	..	..	..	147	735
	2	36	1881	707	20	..	..	..	..	..	..	..	..	..	..	..
Iskapalle	..	6	1870	960	160	104	..	520	..	..	..	..	..	..	104	520
	..	1,856	..	1,70,067	4,626	5,656	..	33,291	876	80	2,815	3,691	..	18,455	9,347	51,746

In Cuddapah some land has been added to the Reddipalle and Kamalápuram plantations, these additions being shown in statement 59-A.

The experiments with mahogany were not very successful. A new plantation of 30 acres was commenced at Pallegundala : 498 seedlings from Madras and 1,234 grown in Cuddapah were planted. All the former died and $\frac{1}{6}$ of the latter.

In other plantations various operations were attempted, such as filling blanks by sowing tree seeds, and seeds of *Cassia auriculata* (tangedu). The latter experiment seems successful.

A few *Dalbergia Sissoo* and *Adenanthera pavoniona* seedlings put down are growing well. Red sanders seedlings were much destroyed by deer: 18,000 palmyras were put down on the banks of the Pennár.

On Horsleykonda Sandal and *Hardwickia binata* seeds were sown, but failed.

In the Balapalle nursery some 6,000 seedlings of various trees were raised and basketted, chiefly teak, mahogany and red sanders.

The red sanders trees in the sample area of Kódúr plantation show an average girth of 19·13 inches. Compared with former years the result is—

		Difference.
1st April 1883	17·88	...
„ 1884	18·28	0·40
„ 1885	18·75	0·47
„ 1886	19·02	0·27
„ 1887	19·13	0·11

Some trees were thinned out and some blown down by the cyclone. The result has been a loss of 35 trees out of 443. The tops of many were broken by the cyclone, and the average height is not more than 40 feet.

In Kurnool two so-called plantations were written off. They were never planted ; a little broadcast sowing was attempted but nothing further.

In Bellary there was no regular plantation work, but some sowing was tried. Sowing seeds in prickly-pear has shown no results yet: 20 lb. of *Soymida febrifuga* seeds were sown in September in a nursery below Rámandrug. The result was very poor, only about 50 seedlings remaining. Experiments in sowing bamboo, teak, sandal, and *Hardwickia* seem also to have proved failures. Mango seedlings planted on the roadsides of the Rámandrug block are doing well.

In Anantapur very little was done—10 acres of Khojjepalle reserve were sown with babul (*Acacia arabica*) seeds and 10 acres of Anantapur reserve with palmyras.

30. In the Nílgiris, in Aramby reserve, 40,550 Bluegum, 700 shola trees and 7,000 Frenela were planted ; casualties 5 per cent. Increase during the year is 10 acres.

In Cairn Hill reserve 3,270 *Cryptomeria* were planted and 14,400 Bluegum, 330 *Pinaster*, 1,970 Cypress, 7,300 Acacia, 300 Grevillea. A large proportion of these were employed in filling up vacancies. The increase during the year was 7 acres.

In Baikie 5,000 Bluegums were planted.

In Governor's shola 1,000. In Lovedale during the year were planted—

		Casualties.
Grevillea	567	5 per cent.
Cedrus Deodara	20	none
Melaleuca	100	all failed
Tristania	20	none
Cedrela toona	88	„
Acer oblongum	4	„
Pittosporum	137	„

In Coonoor sub-division 8,486 seedlings were planted in the Coonoor peak reserve consisting of teak and *Meliosma Arnottiana* in block I, *Planchoniana* and Bluegum in block II, *Cryptomeria japonica*, *Frenela rhomboidea*, Cypress and *Pinaster* in blocks III and IV and *Acacia decurrens* and *Casuarina* in block IV.

Vacancies in compartments 1, 2, 33 and 39 were filled with 4,099 basketted Bluegum.

In Brooklands 919 shola seedlings have been planted to fill casualties.

In the Ghát reserve 130 shola plants were added. The growth altogether is good, except in the case of a few oak and indigenous plants. *Eucalyptus planchoniana* is exceptionally striking.

In the Kullar reserve 7,209 mahogany plants have been planted in gaps in compartments 5, 4, 3, 2 and part of 1 in block IV, 700 *Berrya Ammonilla* were planted between the mahogany in compartments 4 and 5. Casualties are nearly 20 per cent., but the rest are flourishing.

Name of plantations.	Area stocked up to 31st March 1887.	Receipts.				Cost.				Surplus or deficit up to date.
		From the commencement up to 1876-77 (Estimate).	1877—86.	1886-87.	Total up to the end of 31st March 1887.	From the commencement up to 1876-77 (Estimate).	1877—86.	1886-87.	Total up to the end of 31st March 1887.	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Governor's shola.	281	6,698	20,216	2,535	29,449	4,514	5,756	193	10,463	+ 18,986
Chemenguli ..	33	..	..	13	13	..	3,861	..	3,861	— 3,848
Muthanad ..	95	..	69	..	69	..	6,694	..	6,694	— 6,625
Brooklands ..	10	366	376	..	742	187	141	..	328	— 414
Aramby	217	..	9,401	1,838	11,239	2,150	8,744	1,744	12,638	— 1,399
Marliamand ..	11	..	78	..	78	205	625	..	830	— 752
Snowdon ..	7	506	350	..	856	130	84	..	214	+ 642
Çairu Hill ..	149	..	2,085	1,160	3,245	..	9,125	1,641	10,766	— 7,521
Devashola ..	14	..	..	..	..	..	1,637	..	1,637	— 1,637
Blackbridge ..	56	..	..	..	..	1,040	881	..	1,921	— 1,921
Bleakhouse .. / Bandyshola ..	232	16,466	3,773	285	20,524	4,350	145	66	4,561	+ 15,943
Coonoor Peak ..	226⅔	..	11,105	3,203	14,308	3,635	1,311	1,082	6,028	+ 8,280
Tippakutchi ..	35	..	21	..	21	650	133	..	783	— 762
Rallia	105	..	829	..	829	1,765	806	..	2,571	— 1,742
Total ..	1,471½	24,036	48,303	9,034	81,373	18,626	39,943	4,726	63,295	+ 18,058

31. *Topes.*—There is little or no detailed information given in any of the district reports under this heading. In Nellore a large number of outstanding claims for payment for work on those topes in the time of the jungle conservancy were settled during the year. The remainder of the claims are being inquired into by the Special Deputy Collector.

32. *Works of improvement.*—In Kistna the ceara rubber tried on the Kondapalli and Yenapalem hills failed on account of the sites being too dry.

In Cuddapah creeper cutting was continued over the following areas:—

Range.	Reserve.	Acres.	Cost.
Madanapalle ...	Horsleykonda ...	24	243
Kadiri	Nigadi	221	105
	Total ...	245	348

The growth in Horsleykonda is much more dense than in Kadiri. Kódúr plantation was thinned partially and creepers cut there and in Ooperapalle plantation.

In Kurnool improvement fellings were carried on in a block along the railway line in the Nandyál range. The object was to cut out the badly grown trees and sell the produce to the railway. The work was not altogether a success, as Mr. Hooper was obliged to be away on the Eastern Nallamalais during the commencement of the operations and was new to the district. About 1,200 acres were operated on, and 3,800 tons extracted from November to 31st March and 1,000 tons subsequently. Such of the trees as were properly felled in the later operations are showing good signs of reproduction from the stool.

In Bellary creeper cutting was continued in the Ramándrug block of the Sandúr range giving 256 tons at a cost of Rs. 144. Improvement thinnings were also carried on yielding 833 tons at a cost of Rs. 469.

In Anantapur over 12,000 creepers were cut by the fire patrols in Muchukota forest.

33. In the Nílgiris the result of cutting of creepers and strobilanthes were as follows:—

Name of reserve.	Acreage.	Cost.	Sale-proceeds from head-loads at 1 anna.
			RS. AS.
Cairn Hill and Aramby	42	258	489 14
Lambs' Rock	52	312	564 14
Tiger Hill	14	84	227 1
Ghât	44	220	226 5
Stock on hand	...	...	110 0
Total ...	152	874	1,618 2

The result of improvement thinnings was—

Name of reserve.	Acreage.	Cost.	Sale-proceeds.
		RS. A. P.	RS. A. P.
Coonoor Peak	3½	31 0 0	178 15 0
Brooklands	1½	43 14 0	146 2 0
Ghât	11½	130 12 0	453 0 0 (Estimated value).
Kullar	136	1,610 6 5	Not sold.

The following table gives the account current of thinning of block II, compartment 1, of Mudumalai leased forest from 22nd August 1886 to 31st March 1887:—

Particulars.	Amount.	Particulars.	Amount.
Expenditure.	RS. A. P.	*Revenue.*	RS. A. P.
Cost of cutting 3,497 poles of teak, &c., at 1 rupee per 20 poles	174 13 7	Revenue realized by the sale of 100 teak poles, from 2 to 3 feet girth, at 4 annas each	25 0 0
Cost of cutting 1,924 poles, at 1 rupee per 16 poles	120 4 0	Revenue realized by the sale of 50 poles, 3 to 4 feet, at 8 annas each ..	25 0 0
Cost of cutting 609 poles, at 1 rupee per 8 poles	76 2 0	Revenue realized by the sale of 20 venghai poles, 2 to 3 feet girth, at 4 annas each	5 0 0
Cost of cutting 144 timber pieces, at 1 rupee per 8 pieces	24 0 0	Revenue realized by the sale of 5 venghai poles, 3 to 4 feet girth, at 8 annas each	2 8 0
Cost of cutting 3,583 cubic feet of teak, &c., at 9 pies per cubic foot	167 15 3	Revenue realized by the sale of 10 blackwood poles, 2 to 3 feet, at annas 4 each	2 8 0
Cost of cutting 46 acres of jungle clearing, at Rs. 4 per acre	184 0 0	Revenue realized by the sale of 5 blackwood poles, 3 to 4 feet, at 8 annas each	2 8 0
Cost of removing rubbish to roadside and burning 88 acres, at Rs. 2 per acre ..	176 0 0	Revenue realized by the sale of 1,500 cubic feet of timber pieces at an average rate of 3 annas per cubic foot.	275 0 0
Hire of 50 coolies employed in arranging the poles and timber pieces, &c. ..	12 8 0	Revenue realized by the sale of 600 cubic feet of teak, at 6 annas a cubic foot	100 0 0
Timber.		Revenue realized by the sale of 172 cubic feet of vengai, at 1½ anna a cubic foot	16 0 0
Cost of cutting and squaring 682 cubic feet of teak, at 1¼ anna per cubic foot	53 4 6	Revenue realized by the sale of 141 cubic feet of black wood, at 7 annas a cubic foot	61 0 0
Cost of cutting and squaring 597 cubic feet of Vengai, at 1¼ anna per cubic foot	46 10 3	Revenue realized by the sale of 50 cartloads of jungle-wood, at Rs. 3 per cart-load	150 0 0
Cost of cutting and squaring 846 cubic feet of blackwood, at 1¼ anna per cubic foot	66 1 6	*Timber.*	
Cost of cutting and squaring 128 cubic feet of mutti, at 1¼ anna per cubic foot.	10 0 0	Revenue realized by the sale of 682 cubic feet of teak, at 12 annas a cubic foot	511 8 0
		Revenue realized by the sale of 597 cubic feet of venghai, at 5 annas a cubic foot	186 9 0
		Revenue realized by the sale of 846 a cubic foot blackwood, at 4 annas cubic foot	211 8 0
		Revenue realized by the sale of 128 cubic feet of mutti, at 3 annas a cubic foot:	24 0 0
Total ..	1,111 11 1	Total ..	1,598 1 0

34. *Charcoal.*—A Morean's oven was set up in Bandyshola. Only six experimental burnings were made, as there was a prejudice against the charcoal. Each burning takes about four days. The following table gives the results:—

Number of kilns.	Description of wood.	Quantity of wood stacked in the kilns.	Quantity of unburnt wood raked out.	Actual amount utilized.	Quantity of charcoal.	Ratio of columns 5 and 6.	Value of wood utilized at Rs. 1-6-0 per 1,000 lb.
1	2	3	4	5	6	7	8
							Rs. A. P.
1	Acacia.	6,100	1,000	5,100	200	4	5 1 7
2	Do.	7,600	3,000	4,600	250	5½	4 9 7
3	Do.	8,300	4,000	4,300	450	10½	4 4 9
4	Do.	6,000	700	5,300	500	9½	5 4 9
5	Do.	6,500	2,000	4,500	550	12	4 8 0
6	Do.	6,600	2,000	4,600	550	12	4 9 7
	Total ..	41,100	12,700	28,400	2,500	..	28 6 3

Number of kilns.	Description of wood.	Cost of cutting and splitting, carriage for wood utilized	Hire of charcoal burners.	Total cost.	Estimated value of charcoal.	Surplus.	Deficit.
		9	10	11	12	13	14
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Acæcia	3 13 2	1 12 0	10 10 9	4 0 0	..	6 10 9
2	Do.	3 7 2	1 12 0	9 12 9	5 0 0	..	4 12 9
3	Do.	3 3 7	1 12 0	9 4 4	9 0 0	..	0 4 4
4	Do.	3 15 7	1 12 0	11 0 4	10 0 0	..	1 0 4
5	Do.	3 6 0	1 12 0	9 10 0	11 0 0	1 6 0	..
6	Do.	3 7 2	1 12 0	9 12 9	11 0 0	1 3 3	..
	Total ..	21 4 8	10 8 0	60 2 11	50 0 0	2 9 3	12 12 2

Improvement may be expected when more experience has been gained in the working and when the prejudice against the charcoal is dispelled. Part of this prejudice was undoubtedly fomented by the regular charcoal dealers.

35. *Nurseries.*—The Lovedale nursery began last year was finished this year, and this nursery and those of Kullar and Coonoor are well kept up.

36. (*h*) *Experiments and exotic trees.*—From Ganjam a large quantity of tree seed was despatched for experiment. In Kistna the seeds of the Arabian date germinated well. A hundred were put out in February in the wild plantation. There are 300 more to be put out. There are 3,000 mahogany plants in pots ready for planting out, and a number of *Kigelia pinnata* seedlings were raised and given to the Municipality for avenue planting.

In Nellore only 100 of 500 Arabian date seedlings remain. Twelve plants of Malten edible cactus were planted and are doing well. They came from the Agri-horticultural Society at Madras. They were injured by bloodsuckers, whose depredations were prevented by covering them with network.

In Cuddapah the mahogany experiments have been already mentioned. *Dalbergia Sissoo* seems to succeed in the sandy soil of Kamalapuram plantation.

In the nursery beds are the following seedlings:—

Acacia melanoxylon	193
Acrocarpus fraxinifolius	250
Eucalyptus Globulus	28
„ rostrata	47
„ viminalis	23
Basketted—	
Cupressus torulosa	132
Chinese tallow tree (excæcaria)	128
Of Japanese trees planted out—	
Pinus densiflora	2
„ massoniana	6
Bista orientalis	16
Rhus sweedanea	4

In Anantapur some 80 out of 100 date trees received from Cuddapah are planted out and doing well. A few seedlings of *Acrocarpus fraxinifolius* seem to get on well and the experiment is to be tried on a larger scale this year.

In Nílgiris 4,098 mahogany seedlings are planted in the Kullar nursery. Seeds of five or six kinds of Eucalyptus are germinating in the Sim's Park nursery. All the seeds of *Quercus Thomsoniana* failed to germinate and very few of *Acer Hookeri* germinated. Not a single seed out of ¾ oz. of *Pteroxylon utile* germinated.

Of 1 lb. of dates sown in Sim's Park nursery on the 31st September 1886 not one has germinated up to the middle of July 1887. Seeds of ironwood, *Acer Campbellii Cupressus macrocarpa* and *torulosa* grow well.

37. *Communications and buildings—Roads—Ganjam.*—Two roads about six miles each were constructed, one from Tilasingi to Choudorgiri and another from Gullery to Sudugum for Rs. 1,950 each. They are reported to be very useful for timber traffic as well as for inspecting officers.

Godávari.—Three roads—

1. From Jirigupa to Palsumamidi,
2. „ Thakelbore to Bodhlúr,
3. „ Abicherla to Bandargudem,

measuring, respectively, 5, 6, and 11 miles, were made through the forests, besides some 5 miles cleared of roots at a total cost of Rs. 228. In Bhadráchalam more work could have been done but for the scarcity of labor. In the best parts of the year Koyas are engaged on cultivation and at other times they would not work.

Cuddapah.—Balapalle-Váyalpád road was constructed for five miles at a cost of Rs. 800 and this completes a distance of eleven miles from the railway to the last ascent to Mogilipenta. In other ranges some minor roads and repairs were made for Rs. 1,140.

Bellary.—The two ten-foot paths along the boundaries of Rámandrug and north-eastern ranges, mentioned in chapter II, are the only roads made.

Anantapur.—A road was commenced from Bukkapatnam to Narsampalle; a mile and half was completed for Rs. 455.

Nílgiris.—The following works were done:—

	Rs.
Aramby reserved forest, one new cart road, 1 mile and 3 furlongs	1,088
Cairn Hill „ „ „ 3 miles „ 2 „	1,725
Aramby „ (Koolie plantation) one bridle road, 856 yards	16
Cairn Hill (Bathri „) „ 1,320 „	35
Baikie reserve (Muthanad „) one inspection path, 280 yards ...	5
Coonoor Peak reserve, a new cart road in compartments 33, 39 and 40	130
„ „ a bridle path, 1,600 yards, at Rs. 60 a mile ...	54
Mudumalai roads, all repaired and made good	555

Buildings—Godávari.—Rest-houses were commenced at Waddagudem, Jirigupa and Ramaram, but not completed as the contractor was taken ill. An office was built for the gumastah at Jirigupa and, in the lower taluks, nine huts were built for forest guards at a cost of Rs. 105.

Kistna.—Two forest guards' houses and three plantation sheds were erected for Rs. 98.

Nellore.—Rs. 60 spent on adding a room to the Sríharikót houses.

Cuddapah.—The following were constructed:—

	Rs.
(1) Mogilipenta inspection house on the higher plateau of Seshachellam reserved forest (nearly complete)	813
(2) Kódúr range house (partly)	240
(3) Badvél do. with compound wall	450

Kurnool.—Rollapentá bungalow fell down in 1885 and is being reconstructed by the contractor at his own cost. Nandyál bungalow work has not proceeded as all the labor available is absorbed in the Nandyál Railway station buildings. The foundation and out-houses have, however, been given on contract at higher rates than those originally estimated.

Bellary.—The inspection shed on the Donemalai is under construction, and the ranger's house at Sandúr is reported to be in a dilapidated state.

Anantapur.—The head-quarter bungalow at Anantapur was completed during the year and 13 patrol huts and two forest guards' houses were built in different ranges for Rs. 117 and Rs. 52, respectively.

Nílgiris.—The following works were done:—

	Rs.
Construction of a rest-house at Kullar	1,622
Repair of a rest-house at Naduvatam	128
Purchase of an iron shed for Coonoor fuel depôt	478
Construction of a store-house at Coonoor and a guard-house at Brooklands	190
Repair of Ootacamund forest ranger's office	70
Repair of the rest-house in Mudumalai	210

Boats.—Three boats were built for carrying fuel from Srírharikót to Madras depôt.

Chapter V.

38. *Yield and working*—(1) *Departmental work.*—Form No. 68 gives the trees felled by departmental agency during the year as 19,657 as follows:—

Teak	1,899
Venteak	12
Sál	402
Sandalwood	3
Blackwood	109
Satinwood	8
Ebony	4
Red sanders	177
Ironwood	180
Margosa	3
Babul	338
Yepi	73
Yegi	222
Chiriman	25
Nallamaddi	103
Palmyra	8
Eucalyptus	12,491
Acacia	523
Casuarina	543
Miscellaneous	2,534
Total ...	19,657

These details are given in order to show the extent of demand. The teak trees were all cut in the Nílgiris except 10 which were cut in Cuddapah, the sál in Ganjam, the casuarina in Nellore, the eucalyptus and acacia in the Nílgiris, babul in Anantapur and the red sanders in Cuddapah.

39. Form No. 69 shows the timber and other produce cut and collected by Government agency and its disposal either by sale or otherwise. Taking 50 cubic feet and 75 bamboos as the equivalents of a ton, the amount collected was—

District.	Timber.	Fuel and dry wood.	Bamboos.	Minor produce.	Sandalwood.
	C. ft.	C. ft.	C. ft.	Mds. of 25 lb.	Mds. of 25 lb.
Ganjam	12,115	25,700			
Vizagapatam	30	..	..	..	..
Godávari	11,122	..	..	..	..
Kistna	270	1,400	..	..	..
Nellore	4,970	377,350	..	2,142	..
Cuddapah	826	94,874	..	7,808	..
Kurnool	..	250,677	..	470	..
Bellary	975	1,17,104	22,483	226¼	..
Anantapur	578	9,100	..	1,796¾	..
Nílgiris	21,644	325,887	..	1,988	2,000
Total ..	52,530	1,202,092	22,483	14,431	2,000 or 1,100 c. ft.

Subjoined is a comparison of the yield for three years :—

—		1884-85.	1885-86.	1886-87.
Timber	C. ft.	238,317	86,326	52,530
Fuel	,,	740,400	795,000	1,202,092
Bamboos	,,	29,450	4,600	22,500
Minor produce	Mds.	13,063	5,349	14,431
Sandalwood	,,	1,000	916	2,000

There was a great falling off in Ganjam which is explained as due (1) to depression in the timber trade in Calcutta, (2) to increased freight charged for transport to Calcutta owing to low value of rupee, (3) to the death of Mr. Duffield, the timber working agent of Messrs. Harden and Co.

The chief collections were sál in Ganjam, teak in Godávari, Bellary and Nílgiris; fuel and minor produce in Nellore, Kurnool and Bellary; red sanders in Cuddapah; eucalyptus, shola wood, &c., in Nílgiris.

The timber collections in Godávari were not so large as expected for want of elephants, which are not available. In Nílgiris the felling of timber was less than that of last year as the operations were confined to one block ; but there was a great improvement in the cutting of fuel and its sale at the plantations.

40. Form No. 70 shows the receipts and issues of timber, &c., in sale depôts. The amounts received and disposed of during the year come to—

—	Timber, &c.,			
	Received.		Disposed of.	
	NO.	C. FT.	NO.	C. FT.
Ganjam	8,221	13,615	2,677	8,037
Nellore	4,093	2,697	4,803	3,418
Cuddapah	..	94,177	..	95,015
Anantapur	..	..	108	15
Nílgiris	1,407	4,650	960	1,159
Total ..	13,721	115,839	8,548	107,644

Fuel.

	Received Tons	Disposed of Tons.
Ganjam	50	36
Kistna	7	7
Nellore	5,141	3,980
Nílgiris	1,836	1,779
Total ...	7,034	5,802

Bamboos.

	Received No.	Disposed of No.
Ganjam	1,200	1,200

Minor Produce.

	Received Mds.	Disposed of. Mds.
Ganjam	45,138	44,235
Nellore	1,401	1,539
Cuddapah	2,498	136
Kurnool	1,530	...
Bellary	...	77
Anantapur	1,570½	2,198
Total ...	52,137½	46,205

Which we can thus, as before, render approximately in tons as :—

	Received	Disposed of
Timber	2,317	2,153
Fuel	7,034	5,802
Bamboos	16	16
Minor produce	582	516
Total ...	9,949	8,487

Subjoined is a statement of sales in depôts for three year: —

	1884-85.		1885-86.		1886-87.	
	Receipts.	Disposals.	Receipts.	Disposals.	Receipts.	Disposals.
Timber .. .. C. ft.	159,310	166,716	125,747	132,814	115,839	107,644
Fuel .. .. ,,	296,410	271,750	397,900	381,800	351,700	290,100
Bamboos .. ,,	28,400	4,300	1,650	25,750	800	800
Minor produce .. Mds.	7,381	6,754	4,300	5,549	52,137½	46,205

41. Form No. 71 shows the sales of timber, *first* from depôt; *secondly*, from the forest directly; and *thirdly* from drift. The entry of confiscated wood has been omitted. The following abstract of the form shows the sales of the year :—

Timber.

District.	Depôt.		Local.		Drift.		Total.	
	C. FT.	RS. A. P.	C. FT.	RS. A. P.	C. FT.	RS. A. P.	C. FT.	RS. A. P.
Ganjam	351	192 5 11	3,884	792 8 3	..	..	4,235	984 14 2
Vizagapatam ..	..	..	30	14 1 9	..	..	30	14 1 9
Godâvari	..	..	..	..	11,122	3,107 10 9	11,122	3,107 10 9
Kistna	..	..	34	18 11 6	..	..	34	18 11 6
Nellore	640	135 8 6	2,294	484 2 9	..	..	2,934	619 11 3
Cuddapah	95,692	34,793 6 0	98	84 9 0	..	..	95,790	34,877 15 0
Bellary	..	..	975	365 3 10	..	..	975	365 3 10
Anantapur ..	15	4 8 0	81	7 14 6	..	..	96	12 6 6
Nilgiris	2,096	321 12 6	9,747	3,903 3 0	..	..	11,843	4,224 15 6
Total ..	98,794	35,447 8 11	17,143	5,670 6 7	11,122	3,107 10 9	127,059	44,225 10 3

Fuel.

District.	Depôt.		Local.		Drift.		Total.	
	TONS.	RS. A. P.	TONS.	RS. A. P.	TONS.	RS. A. P.	TONS.	RS. A. P.
Ganjam	50	21 7 0	..	..	..	..	50	21 7 0
Kistna	7	26 8 0	3	9 0 0	..	..	10	35 8 0
Nellore	3,910	31,749 7 1	1,517	9,113 12 7	..	..	5,427	40,863 3 8
Kurnool	..	..	5,013	19,296 8 5	..	..	5,013	19,296 8 5
Bellary	..	..	2,071	4,782 11 5	..	..	2,071	4,782 11 5
Anantapur ..	..	..	133	35 1 6	..	..	133	35 1 6
Nilgiris	1,239	8,877 1 7	1,796¾	4,925 7 9	..	..	3,035¾	13,802 9 4
Total ..	5,206	40,674 7 8	10,533¾	38,162 9 8	..	..	15,739¾	78,837 1 4

Bamboos.

District.	Depôt.		Local.		Drift.		Total.	
	NO.	RS. A. P.	NO.	RS. A. P.	NO.	RS. A. P.	NO.	RS. A. P.
Ganjam	1,200	0 4 0	..	..	..	..	1,200	0 4 0
Bellary	..	..	33,725	931 13 0	..	..	33,725	931 13 0
Total ..	1,200	0 4 0	33,725	931 13 0	..	..	34,925	932 1 0

Sandalwood.

	Sold locally.	
	MDS.	RS.
Nílgiris	2,000	9,000

Minor Produce.

District.	Depôt.			Local.			Drift.			Total.		
	MDS.	RS. A. P.		MDS.	RS. A. P.		MDS.	RS. A. P.		MDS.	RS. A. P.	
Ganjam	2,097	122 12	0	..	..		..	..		2,097	122 12	0
Nellore	1,534	2,007 10	3	217	202 5	0	..	..		1,751	2,209 15	3
Cuddapah	134	167 6	3	83	10 8	0	..	..		217	177 14	3
Bellary	67½	8 7	0	191¼	81 7	0	..	..		258¾	89 14	0
Anantapur ..	206	154 5	9	256½	97 6	3	..	..		462½	251 12	0
Nílgiris	..	..		1,923	1,019 14	0	..	..		1,923	1,019 14	0
Total ..	4,038½	2,460 9	3	2,670¾	1,411 8	3	..	..		6,709¼	3,872 1	6

Reducing all to tons we have—

		C. FT.	TONS.	RS.
Timber		127,059	2,541	44,226
Fuel		...	15,739¾	78,837
Bamboos	No.	34,925	465	932
Sandalwood	Mds.	2,000	22	9,000
Minor produce	,,	6,709¼	75	3,872
Total ...		...	18,822¾	1,36,867

or an average receipt of nearly Rs. 7 per ton which is rather less than last year's receipt of Rs. 10 per ton. The maund has been taken at 25 lb. and the estimates made as they were last year (see paragraph 109 of last year's report). The total amount of material sold is greater than last year, especially in fuel and minor produce, though the amount realized is less, which is due to a falling off in the timber trade in Ganjam especially.

I append below a comparison statement of sales for three years.

	1884-85.		1885-86.		1886-87.	
	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.
		RS.		RS.		RS.
Timber	c. ft. 159,544	75,987	c. ft. 197,976	75,819	c. ft. 127,509	44,226
Fuel	,, 448,250	61,919	,, 619,600	75,295	,, 787,987	78,837
Bamboos	,, 5,350	172	,, 27,950	662	,, 23,250	932
Sandalwood	mds. 875	3,414	mds. 910	3,081	mds. 2,000	9,000
Minor produce	,, 8,820	7,830	,, 6,175	5,830	,, 6,709	3,872

42. Form No. 73 shows the difference in value between the stock on hand at the beginning and end of the year in—

District.	On hand at commencement of the year.	On hand at close of the year.	Difference.
	RS.	RS.	RS.
Ganjam	688	3,623	+ 2,935
Nellore	6,469	13,482	+ 7,013
Cuddapah	52	1,378	+ 1,326
Kurnool	..	191	+ 191
Bellary	30	..	— 30
Anantapur	549	2,353	+ 1,804
Nílgiris	2,825	4,064	+ 1,239
Total ..	10,613	25,091	+ 14,478

For the reasons already explained in paragraph 39 the receipts from sale of timber in Ganjam were very low. In Cuddapah a sum of Rs. 34,575 was received chiefly from red sanders; 1,800 tons at 18-4-0 and 100 tons at 17-4-0 or at an average of Rs. 18-3-2 per ton. The cost of bringing the wood to depôt was Rs. 7 as it had to come from great distances to depôts and the profit per ton was therefore 11-1-5 against 10-14-7 per ton in 1885-86. In Nellore the sales under fuel were moderate, the average rate being Rs. 8 per ton. In Kurnool and Bellary also large quantities were sold but at much lower rates. From Sandúr forests 33,725 bamboos were sold for Rs. 932.

43. (2) *Removal by purchasers.*—Form No. 72 gives the sales direct from the forests. According to the figures in form 64 the result compared with last year of timber and other produce removed by purchasers are—

	1885-86.	1886-87.
Ganjam	15,644	16,619
Vizagapatam	3,886	3,958
Godávari	47,554	43,562
Kistna	55,271	76,116
Nellore	7,959	31,811
Cuddapah	126,235	112,090
Kurnool	71,625	77,426
Bellary	17,539	19,206
Anantapur	14,334	17,789
Nílgiris	8,808	10,501
Total ...	368,855	409,078

The decrease in *Godávari* is chiefly under the head of timber, owing to the introduction of the higher rates in Bhadráchalam, which caused a temporary stoppage of the removal of timber thence. There was a considerable increase under sale of bamboos, owing to better supervision.

In Kistna grazing rents increased by Rs. 3,000 and minor produce sales Rs. 4,000, chiefly for soapnuts. This is a satisfactory sign, as the revenue from minor produce should develop largely.

In Nellore the whole increase is large, nearly Rs. 8,000 more than last year being realized under minor forest produce.

44. *Free grants.*—The District Forest-officer of Vizagapatam remarks:—"Free grants have been very extensive. I have repeatedly tried to get them stopped, as there is no provision for them and they are not permissible under the rules under the Forest Act, but the Collector would not stop their issue, and allowed free permits to be given for produce to all Government ryots by the tahsildars. The habit has been to give five bandy loads free for every Rs. 100 of kist the ryot paid. This for Pálkonda alone means 7,500 loads. I have no record of the amount actually given away in Pálkonda; I believe there were about 1,500 loads given away in Golgonda and none in Sarvasiddhi. There were probably 4,000 or 5,000 bandy loads given free in the three ranges of this district.

In Cuddapah some 185 tons of timber were given away to ryots whose houses had been burnt. There is little mention of free grants elsewhere.

45. *Drift and confiscated wood.*—The total under this heading was Rs. 4,554, of which Rs. 3,110 were collected in Godávari.

Chapter VI.

46. *Financial results.*—In form No. 64 is given the summary of revenue and expenditure of the year, the results being—

	Rs.	Rs.
Revenue	...	5,52,248
Expenditure A	2,20,443	
„ B	2,14,523	
		4,34,966
	Surplus ...	1,17,282

which is less than that of last year by Rs. 27,183. The net revenue is 21·2 per cent. of gross revenue which is a little less than that of the last year.

The comparison of revenue and expenditure for the districts is as follows :—

District.	Revenue.	Expenditure.	Surplus or deficit.
	Rs.	Rs.	Rs.
Direction	69	48,663	— 48,594
Ganjam	19,827	35,981	— 16,156
Vizagapatam	4,365	9,868	— 5,503
Godávari	46,768	23,065	+ 23,703
Kistna	76,967	24,335	+ 52,632
Nellore	74,411	60,949	+ 13,462
Cuddapah	1,48,257	70,374	+ 77,883
Kurnool	97,506	33,281	+ 64,225
Bellary	25,177	31,065	— 5,888
Anantapur	18,227	20,934	— 2,707
Nilgiris	40,674	76,451	— 35,777
Total ..	5,52,248	4,34,966	+ 1,17,282

Compared with last year (see paragraph 128 of last year's report) it is noticeable that the surplus or deficit occurs in the same districts except in Ganjam and Nellore. In Ganjam the deficit is due to the falling off in the sales of timber and also to demarcation settlement and other charges. In Nellore the increase is due to the large amount of removals of minor produce (II-*e*) and also under the other heads of revenue.

47. Form No. 67 gives the distribution of revenue and expenditure under the three heads of "Departmental timber works," "Other revenue" and "Improvement of forests." The amount debitable to the first head under the usual distribution (which is the same as in the year 1884-85) is rather low and thus shows a deficit. It will be observed that there are deficits in Ganjam, Anantapur and Nilgiris, due to the large necessary expenditure on demarcation, settlement and communications.

48. Form No. 65 shows the liabilities outstanding against "Contractors and disbursers," chiefly the latter, showing a balance in favor of the department of Rs. 14,378. The large amounts of outstanding chiefly occur in Ganjam, Kistna, Nellore and Kurnool, which will be inquired into and worked off.

49. Form No. 66 shows the outstandings of revenue amounting to Rs. 4,873 mostly in Nellore and Nilgiri districts. In Nellore the outstandings are due from the Public Works department on account of the fuel supplied for the Sangam Project works; in the Nilgiris chiefly from Messrs. Groves and Co., large purchasers of timber.

50. Form No. 73 (*a*) and 73 (*b*) show the comparison between the value of (1) timber, &c., and (2) stores, tools and plant at the beginning and end of the year.

The true value of the year's transactions therefore is—

	Rs.
Net revenue	1,17,282
Outstanding	+ 4,873
Do. advances	+ 14,387
Value of timber	+ 14,478
„ „ stock	...
	1,51,020

51. *Elephants.*— Form No. 74 gives the particulars of these. The condition and work of these elephants is not satisfactory. One of them is again pregnant; and lately a wild elephant has again hindered the work in these forests. In future it will be well to use only male elephants for forest work.

CHAPTER VII.

52. *General remarks.*—The Conservator, Mr. Gamble, visited during the year the districts of Godávari, Kistna, Cuddapah, Kurnool, Anantapur and Nílgiris. He also inspected the offices of these districts and also those of the range officers. During the year he spent 90 days in camp away from Madras or Ootacamund.

Much of the time spent at Ootacamund was, however, spent in getting the Nílgiri district into thorough order, and completing a set of most useful and important maps.

53. The following schedule shows the tours made by District Forest-officers during the year :—

District.	Names of officers.	Number of days.	
		In charge.	On tour.
Ganjam	Mr. A. W. Lushington, Assistant Conservator	365	236
Vizagapatam	„ H. T. D. Sweet, Assistant Conservator	365	215
Godávari	„ J. S. Battie, Assistant Conservator	365	237
Kistna	The Collector	68	..
	Somasundra Mudaliar, Sub-Assistant Conservator	222	139
	Mr. G. Homray, Assistant Conservator	75	46
Nellore	„ F. D'A. Vincent, Deputy Conservator	275	92
Cuddapah	„ A. W. B. Higgens, C.S., Deputy Conservator	290	137
	„ C. L. Toussaint, Sub-Assistant Conservator in charge.	75	40
	Do. do. do. ..	267	205
Kurnool	„ H. P. Leresche, Assistant Conservator	105	99
	The Collector	32	..
	Mr. H. H. Ward, Forest Ranger	112	78
	„ E. D. M. Hooper, Deputy Conservator	115	108
Bellary	„ J. H. B. Brougham, Assistant Conservator	335	109
Anantapur	„ F. A. Lodge, Assistant Conservator	365	254
Nílgiris	Colonel R. S. Jago, Deputy Conservator	365	176

The amount of tour work done was satisfactory.

It is to be noted with regret that Mr. H. P. Leresche, Assistant Conservator, 3rd grade, died on the 16th July 1886.

54. The Conservator (Mr. Gamble) has left on record the following notes on the work of the District Forest-officers :—

Mr. A. W. Lushington has continued to work with his usual energy in Ganjam, where unfortunately the difficulties in securing a market have caused a decrease in revenue.

Mr. Homfray acted as Examiner of Forest Accounts, and the Conservator acknowledges the care and tact which he displayed He took charge for a while of the Nellore district also, and was then posted to Kistna which he is speedily putting into good order.

Mr. Battie has done excellent work in Godávari in the judicious selection of reserved forests, the organization of revenue work, and the demarcation of the forests of the upper taluks.

Mr. Lodge has worked very well in the Anantapur district, but the Conservator regrets that he cannot say the same of Mr. Brougham's work in Bellary.

On Mr. Sweet's work in Vizagapatam, delayed by causes which are not entirely his fault, the Conservator does not wish to make any comment.

Mr. Higgens, C.S., was in charge of the Cuddapah district throughout the year and was chiefly occupied in the work of forest settlement. His connection with the department will soon cease it is understood, and the Conservator desires cordially to acknowledge his services. Mr. Vincent remained as hitherto in charge of Nellore and did excellent work in the careful selection of reserved forests in the plains taluks. Mr. Hooper on his return from leave was posted to Kurnool and set to work at once in the organization of fuel cuttings and the demarcation and settlement of the Nallamalais reserves. The Conservator is indebted to Colonel R. S. Jago for his cordial assistance in the completion of the work of the selection of reserved and village forests on the Nílgiris.

55. *General health of the establishments—Ganjam.*—Much fever reported.

Vizagapatam.—Health good up to July; after that the District Forest-officer constantly ill with fever; one office peon died, and the second clerk ill for three months.

Godávari.—Health unusually bad. One forester, two revenue gumastahs and three peons died and many forest guards had to take sick leave.

Kistna.—No special report.

Nellore.—The District Forest-officer's health suffered much. The health of the establishment is reported good on the whole.

Cuddapah.—No special report.

Kurnool.—No special report.

Bellary.—Health generally good.

Anantapur.—The District Forest-officer suffered from sun exposure. There was a good deal of fever during the wet season and one guard died.

Nílgiris.—Health generally good except in Mudumalai.

56. The reports were received from many districts late, especially from Bellary and Nellore, the District Forest-officer of the former district having left on transfer without doing anything towards the completion of the report, and the District Forest-officer of the latter going on furlough. Many returns in other districts were imperfect and necessitated reference.

57. *Service Books.*—Returns regarding the upkeep of service books were called for in March last with reference to G.O., dated 22nd February 1886, No. 396, Public Department, communicated with Board's Proceedings, dated 12th March 1886, No. 613, but replies have been received only from five districts, viz., Ganjam, Vizagapatam, Nellore, Anantapur and Nílgiris to the effect that service books are properly maintained, though in the case of some newly-entertained men they have yet to be opened.

Annual Form No. 59-A.

Forest Department, Madras, Northern Circle.

Area of Reserved Forests under the Forest Act, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres	Acres.	Acres.	Equivalent in square miles.		
Nellore ..	Ongole ..	Kotapatam plantation.	..	..	35	..	35	..	No. 291 of 22nd July 1886.	
		Tummalapenta plantation.	..	..	54	..	54	..	No. 293 of 22nd July 1886.	
		Karnpartti plantation.	..	..	20	..	20	..	No. 363 of 1st October 1886.	
		Ramapatam plantation.	..	..	39	..	39	..	No 362 of 1st October 1886.	
		Total, Nellore ..	..	..	148	..	148	½		
Cuddapah.	Kódúr ..	Kódúr plantation ..	50	..	..	..	50	..	No. 39 of 6th March 1884.	
		Thunakonda ..	1,048	2	..	..	1,048	2	No. 39 of 6th March 1884.	
		Uparapalli plantation.	108	..	..	..	108	..	No. 223 of 25th November 1884.	
		Kódúr	..	..	7,440	..	7,440	11½	No. 335 of 23rd August 1886.	
		Seshachellam ..	..	..	1,28,000	..	1,28,000	200		
		Settikunta	..	..	8,960	..	8,960	14	No. 54 of 25th January 1887.	
	Rájampet.	Pullampet plantation.	328	½	..	..	328	½	No. 170 of 6th September 1884.	
		Mittamidapalle ..	98	..	..	..	98	..	No. 170 of 6th September 1884	
		Reddipalle	..	..	1,284	..	1,284	2	No. 292 of 24th July 1886.	
		Vattalur hill ..	..	..	2,880	..	2,880	4½		
	Ráyachóti.	Sibyala	..	..	3,500	..	3,500	5½		
		Tsundupalle ..	..	..	3,000	..	3,000	4½		
		Gadikota	..	..	12,462	..	12,462	19½		
	Sidhout ..	Kanomalapalle ..	..	..	4,435	..	4,435	7	No. 335 of 23rd August 1886.	
	Cuddapah.	Kamalapuram plantation.	..	..	485	..	485	1	No. 292 of 24th July 1886.	
		Total, Cuddapah ..	1,632	2½	1,72,446	..	1,74,078	272		
Anantapur.	Anantapur.	Anantapur plantation	131	..	..	..	131	..	No. 63 of 14th January 1885.	
	Gooty ..	Khojjapalle.. ..	367	½	..	..	367	½		
	Penukonda.	Narsampalle ..	1,280	2	..	..	1,280	2	No. 346 of 5th December 1885.	
		Kottakota	..	..	5,120	..	5,120	8	No. 53 of 25th January 1887.	
	Hindupur ..	Somarazamalai ..	1,920	3	..	..	1,920	3	No. 225 of 1st August 1885.	
		Total, Anantapur ..	3,698	5½	5,120	..	8,818	13½		
Nilgiris.	Ootacamund.	Marliamund plantation.	17	..	..	..	17	..	No. 231 of 1st December 1884.	
		Aramby	430	½	..	..	430	½	No. 143 of 28th April 1885.	
		Marliamund ..	194	..	..	..	194	..	....	Marliamund, Therma tope and Nergodumund.
		Cairn hill	559	1	..	..	559	1	....	Cairn hill, Fairlawns, Madanad and Bathrishola.
		Brooklands ..	177	½	..	..	177	½	No. 84 of 14th March 1885.	
		Lovedale	296	½	..	..	296	½	....	Lovedale, Elk hill, Manjinikorai.
		Craigmore	299	½	..	..	299	½	No. 141 of 28th April 1885.	
		Doddabetta	542	1	449	..	991	1½	No. 307 of 11th August 1886.	Mainalai, Doddahalla, Doddahalla sholas, Woodcock sholas, Kótagiri trace sholas.

Area of Reserved Forests under the Forest Act, 1886-87—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nilgiris—*cont.*	Ootacamund—*cont.*	Snowdon	1,053	2	..	..	1,053	2	No. 141 of 28th April 1885.	
		Jakuntha	..	..	370	..	370	½	No. 165 of 12th May 1886.	
		Muthanád	420	1	..	..	420	1	No. 84 of 14th March 1885.	
		Governor's shola ..	2,694	4½	..	..	2,694	4½	....	Governor's shola, Baikie, Cully, Ulnad, Croormund.
		Pykara	1,309	2	..	..	1,309	2	....	Pykara and Yemmaikal.
		Sandynála	818	1	..	..	818	1	No. 89 of 5th March 1886.	
		Kengodu	415	½	..	..	415	½		
		Karpakan	391	½	..	..	391	½		
		Naduvatam sholas..	1,501	2	..	..	1,501	2	....	Naduvatam, Ochterlony, Terrace, Bellevue and Carritt sholas.
	Naduvatam.	Vellingiri	643	1	..	..	643	1	No. 89 of 5th March 1886.	
		Kadcoopa	1,622	2½	..	..	1,622	2½		
		Mukurti	8,953	13½	..	..	8,953	14	....	Nilgiri peak, Mukurti peak, Pichalbettu.
		Northernhay ..	..	..	3,998	..	3,998	6	No. 380 of 12th October 1886.	
	Melúr ..	Ithalar	..	..	460	..	460	1	....	Ithalar, Puthuhatti and Sillahalla.
		Devashola	..	..	215	..	215	½		Devashola, (north and south).
		Balakola	..	..	935	..	935	1½		Thalakad, Kothibenu, Melúr (west), Vugunthebettu, Maryland.
		Athigarahatti ..	..	..	34	..	34	..	No. 117 of 23rd March 1886.	
		Sutton shola ..	..	..	52	..	52	..		
		Commandu ..	..	..	993	..	993	1½		
		Pembroke	..	..	122	..	122	..		
	Coonoor..	Hulikal	..	..	6,411	..	6,411	10	No. 117 of 23rd March 1886.	
		Honnathalai ..	320	½	..	..	320	½	No. 88 of 5th March 1886.	
		Rallia	189	½	..	..	189	½	No. 89 of 5th March 1886.	Bettumand, Newman.
		Blackbridge ..	390	½	..	..	390	½	No. 232 of 1st December 1884.	
		Coonoor peak ..	540	½	..	..	540	½	....	Coonoor peak, Bandyshola, Bleakhouse, Springfield and Sim's park.
		Lambs' rock ..	708	1	..	..	708	1	No. 232 of 1st December 1884. No. 276 of 15th September 1885.	
		Tiger hill	328	½	..	..	328	½	....	Tiger hill and Brooklands.
		Ghát reserves ..	311	½	..	..	311	½	....	Townshola, River reserve Ghát reserve.
		Hillgrove	187	½	..	..	187	½	No. 276 of 15th September 1865.	Hillgrove and Benhope.
	Kótagiri	Kullár	1,815	3	..	..	1,815	3	....	Kullár, Aduthoré, Barliyár.
		Kótagiri	563	1	..	..	563	1	....	Five reserves, see Annual Report, 1885-86.
	Mudumalai	Benne	10,317	16	..	..	10,317	16	No. 141 of 8th April 1885.	
		Moyár	13,238	21	..	..	13,238	21	No. 88 of 5th March 1886.	
	Sigúr ..	Kalhatti slopes ..	8,983	14	..	..	8,983	14	....	Tingara, Kalhatti, Bockepuram
		Ebanád	..	..	571	..	571	1	No. 325 of 11th August 1886.	
	Kundahs.	Kundah	..	..	40,521	..	40,521	63	....	
		Mikkeru	..	..	1,267	..	1,267	2	No. 430 of 12th November 1886.	
		Thiashola	..	..	1,551	..	1,551	2½		
		Hiriyashige ..	..	..	2,175	..	2,175	3½		
		Total, Nilgiris ..	60,222	94	60,124	..	120,346	188		
		Nellore	..	..	148	..	148	½		
		Cuddapah	1,632	2½	172,446	..	174,078	272		
		Anantapur	3,698	5½	5,120	..	8,818	13½		
		Nilgiris	60,222	94	60,124	..	120,346	188		
		Grand Total ..	65,552	102	237,838	..	303,390	474		

ANNUAL FORM No. 59-C.

Forest Department, Madras, Northern Circle.

Area of reserved lands, 1886-87.

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Kistna ..	Bezváda ..	Kondapalle	..	..	33,722	..	33,722	52·5	Collector's notification, dated 6th Dec. 1884.	
		Koltur	..	..	7,593	..	7,593	12·0		
		Bezváda	..	..	1,216	..	1,216	2·0		
		Gunadala	..	..	1,107	..	1,107	2·0		
		Budaváda	..	..	7,740	..	7,740	12·0		
		Jaggayapeta	..	..	9,658	..	9,658	15·0		
	Guntúr	Kondavid	..	..	15,114	..	15,114	24·0		
		Tadepalli	..	..	2,800	..	2,800	4·0		
		Kuragalla	..	..	1,069	..	1,069	2·0		
		Nidamarru	..	..	581	..	581	1·0		
		Narakodúr	..	..	811	..	811	1·0		
		Karlapudi	..	..	913	..	913	1·5		
	Krosúr	Vencatayapalem	..	..	46,201	..	46,201	72·0		
		Bellamkonda	..	..	1,990	..	1,990	3·0		
		Nevalepuri	..	..	11,870	..	11,870	18·5		
		Konanki	..	..	4,602	..	4,602	7·0		
	Vinukonda ..	Bollapalli	..	..	37,712	..	37,712	59·0		
		Guttikonda	..	..	42,241	..	42,241	66·0		
		Kakerali	..	..	28,864	..	28,864	45·0		
	Palnád	Madamapadu	..	..	9,960	..	9,960	15·5		
		Pasuvemulá	..	..	22,782	..	22,782	35·5		
		Kollagunta	..	..	34,947	..	34,947	55·5		
		Gungulagunta	..	..	24,514	..	24,514	38·0		
		Mutkur	..	..	31,408	..	31,408	49·0		
	Bápatla	Muttayapalem	..	..	9,842	..	9,842	15·0		
		Total ..	..	..	389,257	..	389,257	608·0		
Nellore ..	Kávali	Kávali	2,933	5	..	..	2,933	5	Collector's notice, dated 9th June 1886.	
Cuddapah	Kódúr	Reddipalle plantation ..	1,800	3	..	* 1,284	516	1	....	* Réctification of area; transferred to form No. 59-A.
	Cuddapah	Kamalapuram do. ..	500	1	..	500	..	..	....	Transferred to form No. 59-A.
	Kódúr	Settigunta	8,960	14	..	8,960	..	..		

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Kódúr	Kódúr	9,600	15	..	* 7,440	2,160	3½	....	
	Kódúr and Rajampet	Salivendra	19,200	30	..	..	19,200	30	Collector's notice, dated 6th Mar. 1884.	Proposed as reserved forest.
		Chitvel	10,240	16	..	..	10,240	16		
	Rajampet	Vattalur hill	3,200	5	..	* 2,880	320	½	....	
	Kodúr, Ráyachóti and Váyalpád.	Seshachellam	115,200	180	..	161,280	3,840	6	....	Transferred to form No. 59-A.
	Rajampet and Ráyachóti.	Rollamadugu	49,920	78						
		Gadikota	16,000	25	..	12,462	3,538	6	....	
	Cuddapah, Ráyachóti and Sidhout.	Palkonda	81,920	128	..	..	81,920	128	Collector's notice, dated 6th Mar. 1884.	
	Cuddapah, Ráyachóti and Pulivendla.	Idupulapaya	28,160	44	..	..	28,160	44		
	Badvél	Kavalakuntla	11,520	18	..	..	11,520	18	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest.
		Ganugapenta	17,280	27	..	..	17,280	27		
		Gopavaram	13,440	21	..	..	13,440	21		
	Badvél and Sidhout ..	Ramapuram	7,680	12	..	..	7,680	12		
	Sidhout	Malliamkonda	14,080	22	..	..	14,080	22		
		Konarazupalle	9,600	15	..	..	9,600	15		
		Vontimitta	5,760	9	..	..	5,760	9		
	Sidhout and Rajampet .	Kanakalakonda	6,400	10	..	..	6,400	10		
		Polur	7,680	12	..	..	7,680	12		
	Sidhout and Cuddapah .	Kanamalapalle	9,690	15	..	* 4,435	5,255	8		
	Sidhout, Cuddapah and Badvél.	Lankamala	112,640	176	..	..	112,640	176		
	Badvel	Kottakota	38,400	60	..	..	38,400	60	Do. do. ..	Do. do.
	Badvél and Proddutur .	Dasaripalle	66,560	104	..	..	66,560	104		
		Kanchalamaram	8,960	14	..	..	8,960	14		
	Ráyachóti ..	Sibbayala	3,840	6	..	* 3,500	340	½		
		Tsundupalle	4,480	7	..	* 3,000	1,480	2½		
		Madhavaram	5,120	8	..	..	5,120	8		Proposed as reserved forest.
		Vandadi hill	3,200	5	..	..	3,200	5		
	Ráyachóti and Váyalpád.	Urukonda	8,960	14	..	..	8,960	14	Do. do. ..	Proposed as reserved forest. Includes present Nadimcherla reserve, 2,000 acres.
	Madanapalle, Ráyachóti and Váyalpád.	Rekkalakonda	6,400	10	..	..	6,400	10		Proposed as reserved forest. Includes present Rekkalakonda reserve 1,200 acres.
	Váyalpád	Yellutla	7,680	12	..	..	7,680	12		Proposed as reserved forest and contain present Yellutla reserve, 3,500 acres.

* Transferred to form No. 59-A.

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Vâyalpâd ..	Gujjibuchukona	320	½	..	..	320	½		Proposed as reserved forest and now the Gorantlapalle reserve.
		Yerrumaralajedu	3,680	5½	..	..	3,680	5½	Collector's notice, dated 6th Dec. 1884.	
		Ankalammakonda	2,800	4	..	..	2,800	4		Proposed as reserved forest and now the Ankalammakonda reserve.
		Nurukupalakonda	3,700	5½	..	..	3,700	5½		Proposed as reserved forest and now the Nurukupalakonda reserve.
	Madanapalle ..	Tavalam	5,120	8	..	..	5,120	8		Proposed as reserved forest.
		Mahdanikonda	1,920	3	..	..	1,920	3		
		Pentzapad	1,920	3	..	..	1,920	3		
		Analakonda	4,480	7	..	..	4,480	7		
		Aludineadugu	1,920	3	..	..	1,920	3		
		Horsleykonda	9,630	15	..	..	9,630	15		Proposed as reserved forest and now the Horsleykonda reserve.
		Madugamala	2,560	4	..	..	2,560	4		Proposed as reserved forest and includes the Kosimarapalle reserve 1,400 acres.
		Malliakonda	2,200	3½	..	..	2,200	3½	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest and now the Malliakonda reserve.
		Nallakonda .. .. Kottammakonda and Errakasikonda.	3,840	6	..	..	3,840	6		Proposed as reserved forest and includes the Sompalle reserve, 800 acres.
	Kadiri	Ishwaramala	15,360	24	..	..	15,360	24		Proposed as reserved forest.
		Kokanti	2,000	3	..	..	2,000	3		Proposed as reserved forest and now the Kokanti reserve.
		Kadiri	10,240	16	..	..	10,240	16		
		Vellichellamala	2,560	4	..	..	2,560	4		
		Therumaladevarakonda ..	9,600	15	..	..	9,600	15		
		Nigadi	19,000	30	..	..	19,000	30		Proposed as reserved forest and now the Nigadi reserve.
	Kadiri and Pulivendla .	Gorivikanama	28,800	45	..	..	28,800	45	Pulivendla .. 31 Kadiri .. 14	
		Dorigulla	30,720	48	..	..	30,720	48	Pulivendla .. 24 Kadiri .. 24	
	Kadiri	Kukaravukonda	5,120	8	..	..	5,120	8	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest.
		Tumala	25,600	40	..	..	25,600	40		
		Malakavemulu	1,920	3	..	..	1,920	3	....	Proposed as reserved forest and includes part of reserved area now known as Malakavemulu, 5,500 acres.

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Kadiri—*cont.*	Tummalamala	6,400	10	..	..	6,400	10	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest and includes part of reserved area now known as Kondakomerla, 2,700 acres.
		Kondakomerla	3,200	5	..	..	3,200	5		
		Somarazumala (east)	1,280	2	..	..	1,280	2		Proposed as reserved forest and included part of reserved area known as Kondakomerla.
	Kódúr	Settigunta	960	1½	..	..	960	1½	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
		Yerraguntlakota	6,400	10	..	..	6,400	10		
	Rájampet	Ananthasamudram	10,240	16	..	..	10,240	16		
		Sanipaya ghât	3,200	5	..	..	3,200	5		
	Sidhout	Turupukondala	7,040	11	..	..	7,040	11		
		Ippakanama	1,600	2½	..	..	1,600	2½		
	Bádvel	Kalsapad	6,400	10	..	..	6,400	10	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
		Sancherla	5,760	9	..	..	5,760	9		
		Tsallagirigola	1,280	2	..	..	1,280	2		
		Badvél	1,920	3	..	..	1,920	3		
	Cuddapah and Pulivendla.	Ganganapalle	57,600	90	..	..	57,600	90		
		Chelakampalle	9,600	15	..	..	9,600	15		
	Ráyachóti	Bramanayerragudi	7,680	12	..	..	7,680	12		
		Haskapuram	23,040	36	..	..	23,040	36		
		Total	1,062,680	1,660	..	205,741	856,939	1,339		
Kurnool	Sirvel and Nandyál	Sirvel	128,000	200	..	..	128,000	200	Collector's notification of 6th Dec 1884.	Areas approximate only.
	Nandyál and Nandikótkur.	Nandyál	192,000	300	..	..	192,000	300		
	Nandikótkur	Nandikótkur	256,000	400	..	..	256,000	400		
	Cumbum	Uyalawada	448,000	700	..	..	448,000	700		
	Cumbum and Markapur.	Cumbum								
	Markapur	Markapur								
	Cumbum	Northern Veligondas	19,200	30	..	..	19,200	30		
		Southern do.	19,200	30	..	..	19,200	30		
		Western do.	10,800	17	..	..	10,800	17		
		Total	1,073,200	1,677	..	..	1,073,200	1,677		
Bellary	Kúdligi and Hospet	Bandri	7,000	11	..	..	7,000	11	Notification of 15th Oct. 1884.	Areas approximate only.
	Hospet	Gound	3,000	4¾	..	..	3,000	4¾		

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Bellary—*cont.*	Hospet—*cont.*	Hospet	5,000	8	..	..	5,000	8	Notification of 15th Oct. 1884.	Areas approximate only.
		Jog	4,000	6¼	..	..	4,000	6¼		
		Oblagudi	1,000	1½	..	..	1,000	1½		
	Bellary	Bellary	8,000	12½	..	..	8,000	12½		
		Mincheri	4,000	6¼	..	..	4,000	6¼		
	Hospet	Tornagal	2,100	3¼	..	..	2,100	3¼		
	Kudligi	Sherbi	3,000	4½	..	..	3,000	4½		
		Gollalinganhalli	1,000	1½	..	..	1,000	1½		
		Tumurgudi	2,500	4	..	..	2,500	4		
		Somalapur	1,000	1½	..	..	1,000	1½		
		Sonkadakal	7,000	11	..	..	7,000	11		
		Shivpur	9,000	14	..	..	9,000	14		
	Adóni	Adóni (west)	5,000	8	..	..	5,000	8		
		Do. (east)								
		Ganekola	1,118	1¾	..	..	1,118	1¾		
		Badenahalli	792	1¼	..	..	792	1¼		
		Kotalam	681	1	..	..	681	1		
		Halekota	486	¾	..	..	486	¾		
		Sulakeri	1,342	2¼	..	..	1,342	2¼		
		Kupgul	4,650	7¼	..	..	4,650	7¼		
		Tungabhadra	4,633	7¼	..	..	4,638	7¼		
		Halevy	1,145	1¾	..	..	1,145	1¾		
		Kosgi	2,970	4¾	..	..	2,970	4¾		
		Nandavaram	971	1½	..	..	971	1½		
		Rayachóti	1,863	2¾	..	..	1,863	2¾		
		Kurimetla	3,341	5¼	..	..	3,341	5¼		
		Buthivasi	1,964	3¼	..	..	1,964	3¼		
		Kotakallu	2,569	4	..	..	2,569	4		
		Kudbur	2,952	4¾	..	..	2,952	4¾		
	Hadagalli and Harpanahalli.	Harada	18,000	28¼	..	..	18,000	28¼		
		Sogy	4,200	6½	..	..	4,200	6½		
		Total ..	116,277	183	..	..	116,277	183		
Anantapur ..	Penukonda	Kottakota	3,840	6	..	3,840	..	..		Transferred to form No. 59-A.
		Narasampalli	2,560	4	..	..	2,560	4	Collector's notification, dated 7th Dec. 1885.	Areas approximate only.
		Somarazumallai (west)	210	..	..	..	210	..		
	Muchukota	Muchukota	7,040	11	..	..	7,040	11		
		Total ..	13,650	21	..	3,840	9,810	15		

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris ..	Ootacamund ..	Nanjanad	1,327	2	..	..	1,327	2		
	Chemenguli	901	1	..	..	901	1		
	Naduvattam ..	Naduvattam	4,966	8	..	* 97	4,869	8		* Transferred to form No. 59-A.
	Ootacamund ..	Dodabetta Block I	310	1	..	310	..	..		Do. do.
		Do. do. II	115	..	..	115	..	..		Do. do.
		Total ..	7,619	12	..	522	7,097	11		
	Abstract ..	Kistna	..	..	389,257	..	389,257	608		
		Nellore	2,933	5	..	..	2,933	5		
		Cuddapah	1,062,680	1,660	..	205,741	856,939	1,339		
		Kurnool	1,073,200	1,677	..	..	1,073,200	1,677		
		Bellary	116,277	183	..	..	116,277	183		
		Anantapur	13,650	21	..	3,840	9,810	15		
		Nílgiris	7,619	12	..	522	7,097	11		
		Total ..	2,276,359	3,558	389,257	210,103	2,455,513	3,838		

Annual Form No. 59-D.

Forest Department, Madras, Northern Circle.

Area of leased forests, 1886-87.

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Bellary ..	Sandúr	Sandúr	40,000	62½	..	..	40,000	62½		Rectification of error in the statement of the last year Annual Report.
Nílgiris ..	Mudumalai	Mudumalai	87,285	136	..	..	87,285	136		
		Total ..	1,27,285	198½	..	..	1,27,285	198½		

Annual Form No. 60.

Forest Department, Madras, Northern Circle.

Area of Plantations, 1886-87.

District.	Range.	Name of plantation.	On 1st April 1886.		Added during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Godávari	Narsápur	Rustambadu	24	4,153	..	..	24	4,153	Formed in 1866-67.
		Sitarámpuram	26				26		
	Amalápuram ..	Bendamurlunka (old)	27	2,014	..	..	27	2,014	Do. in 1875-76.
		Do. (new)	20	1,144	..	..	20	1,144	Do. in 1882-83.
		Total ..	97	7,311	..	..	97	7,311	
Kistna	Bandar	Karrimid	20	362	..	25	20	387	
		Mughudham	15½	239	— 15½	— 239	..	..	Sold.
		Ariselallt	25	356	— 25	— 356	..	..	Sold.
		Masulipatam sepoy lines	46	1,229	48	1,307	94	2,536	Commenced in 1885.
	Gudiváda	Kodúr	38	174	2	60	40	234	
		Gopavanipalem	..	..	15	188	15	188	Commenced in 1886.
		Konkolu	17	1,149	(*a*) 120	270	137	1,419	(*a*) To correct area.
		Allinagaram	125	671	..	100	125	771	
		Korlapadu	20	207	..	22	20	229	
		Mandaralli	20	209	—(*b*) 13	18	7	227	(*b*) To correct area.
		Iyawar Rudravaram	20				20		
		Banninampadu	26	250	..	60	26	310	
		Vemarrapadu	16	250	..	22	16	272	
		Venudhuru	64	290	—(*c*) 39	64	25	354	(*c*) To correct area.
	Bezváda	Ibrampatam	24	195	..	60	24	255	
	Krósúr	Gannavaram	39	169	..	60	39	229	
	Palnád	Thurmerikodu	21	336	— 21	— 336	..	..	Transferred to form 61. Topes.
	Bápatla	Bápatla	21	485	—(*d*) 2	79	19	564	(*d*) Rectification of area.
		Karlapalem	236	3,809	—(*e*) 161	120	75	3,929	(*e*) Do. do.
		Vedhullapalle	20	371	—(*f*) 17	69	13	440	(*f*) Do. do.
		Chirala	17	1,291	— 17	— 1,291	..	..	Sold.
		Wardarevu	23	3,499	(*g*) 47	72	70	3,571	(*g*) Rectification of area.
		Ammilapeta	26	1,759	— 26	— 1,759	..	..	Sold.
		Nayanipalli	17	1,021	—(*h*) 7	79	10	1,100	(*h*) Rectification of area.
		Pandhillapalli	49	363	— 37	75	12	438	Do. do.
		Total ..	945½	18,684	+ 232	+ 2,750	807	17,453	
					— 370½	— 3,981			
Nellore	Gúdúr	Dugarázpatnam	455	35,190	60	2,158	515	37,348	Commenced in 1873.
		Kothapatnam	385	28,141	25	985	410	29,126	
		Tamminapatam	485	41,761	4	919	489	42,680	Do. in 1873.
		Chandrasikuppam	10	218	..	404	10	622	

Area of plantations, 1886-87—*cont.*

District.	Range.	Name of plantation.	On 1st April 1886.		Added during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
Nellore—*cont.*	Nellore	Allipuram	39	9,278	..	9	39	9,287	Commenced in 1873.
		Utukúr	180	15,966	..	72	180	16,038	Do. in 1875.
		Varani	292	34,652	..	32	292	34,684	Do. in 1874.
	Atmakúr	Mamudúr	9	1,434	..	..	9	1,434	
	Kaváli	Tummalapenta	54	18,668	..	..	54	18,668	Do. in 1873.
	Kandukúr	Ramayapatnam	40	19,506	..	..	40	19,506	
	Ongole	Kothapatnam	35	14,666	..	..	35	14,666	
		Kanuparti	20½	16,498	..	..	20½	16,498	Do. in 1873.
		Total ..	2,004½	2,35,978	89	4,579	2,093½	2,40,557	
Cuddapah	Kódúr	Kódúr	37	6,938	..	72	37	7,010	Do. in 1865.
		Uparapalle	108	8,255	..	72	108	8,327	Do. in 1868-69.
		Reddipalle	925	13,160	..	72	925	13,232	Do. in 1869 70.
	Rájampet	Pullampet	426	7,892	..	72	426	7,964	Do. in 1871.
	Cuddapah	Kumalápuram	332	10,090	..	72	332	10,162	Do. in 1869.
	Kódúr	Arimanabunda	4	520	..	158	4	678	Do. in 1883-84.
		Pallegundalamadugu	..	..	30	228	30	228	Do. in 1886-87.
		Total ..	1,832	46,855	30	746	1,862	47,601	
Nílgiris	Ootacamund	Mudumalai	21	27,499	..	371	101	27,870	
		Benne	80						
		Northern hay	23	10,200	..	..	23	10,200	Old Sigúr plantation.
		Governor's shola	277	10,270	..	193	277	10,463	Includes the old plantations of Hoopatti Andy, Sheffield, Cully, Choughat cully, Baikie, and Madana commenced in 1880.
		Chemenguli	33	3,861	..	..	33	3,861	Commenced in 1879.
		Muthanad	95	6,694	..	..	95	6,694	Do. in 1880.
		Brooklands	10	328	..	..	10	328	Do. in 1862.
		Aramby	198	10,894	10	1,744	208	12,638	Do. in 1863, includes Koolie plantation.
		Marliamund	11	830	..	..	11	830	Do. in 1860.
		Snowdon	7	214	..	..	7	214	Do. in 1860.
		Cairn hill	145	9,125	7	1,641	152	10,766	Do. in 1877.
		Devashola	14	1,637	..	..	14	1,637	Do. in 1880.
		Blackbridge	56	1,921	..	..	56	1,921	Do. in 1874, includes Rock plantation.
		Bleak house	235	4,495	..	66	235	4,561	Do. in 1857.
		Bandy shola							

Area of plantations, 1886-87—*cont.*

District.	Range.	Name of plantation.	On 1st April 1886.		Added during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nílgiris—*cont.* ..	Ootacamund—*cont.*	Coonoor peak	202	4,972	..	1,082	202	6,054	Commenced in 1872.
		Tippakutchi	35	783	..	..	35	783	Do. in 1882.
		Rallia	105	2,571	..	..	105	2,571	
		Total ..	1,547	96,294	17	5,097	1,564	1,01,391	
		CULTURAL OPERATIONS.							
Ganjam	Goomsur	Mojagodo	3½	609	..	33	3½	642	Formed in 1869-70.
		Total ..	3½	609	..	33	3½	642	
Vizagapatam ..	Pálkonda	Voni	25	451	..	..	25	451	
		Lakshmipuram	26	619	..	..	26	619	
		Total ..	51	1,070	..	..	51	1,070	
Kistna	Bezváda	Kondapalle	..	..	..	355	..	355	Experimental planting of rubber trees.
	Guntúr	Yerrapalem	..	..	..	93	..	93	
		Total ..	..	..	..	448	..	448	
Nellore	Kávali and Kandukúr.	....	..	324	50	..	50	324	Miscellaneous sowings in forest and among prickly-pear (40,700 pits dug and sown).
	Gúdúr	Sríharikót	..	679	..	457	..	1,136	Sowing and planting of blanks in the natural jungle.
		Total ..	..	1,003	50	457	50	1,460	
Cuddapah	Cuddapah	Kámalápuram	10	..	..	..	10	..	Sown with Babul in 1884-85 but failed.
		Do.	4	16	4	2	8	18	Sown with Babul by goats and sheep in April 1885, March 1886 and August 1886.
		Do.	8	52	10	69	18	121	Sown with Drisanam and Vepa.
		Do.	27	38	15	18	42	56	Do. Palmyras.
		Do.	5	3	..	..	5	3	Sowings in prickly-pear mostly unsuccessful.
		Do.	..	..	3	17	3	17	Planting out and watering *Dalbergia sissu* from baskets.
		Do.	..	..	½	..	½	..	Planting out Adenanthera *pavoniana* and edible cactus.
		Appaiapalle	2	..	..	..	2	..	Sowings of Vepa in prickly-pear.

Area of plantations, 1886-87—*cont.*

District.	Range.	Name of plantation.	On 1st April 1886.		Added during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.*	Cuddapah—*cont.*	Appaiapalle	7	10	16	15	23	25	5,840 palmyras sown in furrows. 3,600 do. do. pits. 100 Drisanam seedlings.
		Do.	..	..	¼	..	¼	..	A few seeds of *Adenanthera pavoniana* and *Livingstonia Mansetiana* sown in March 1887.
	Rájampet	Pullampet	78	79	21	55	99	134	Sown with Tangedu after ploughing.
		Reddipalle	5	..	2	3	7	3	Do. do.
	Kódúr	Balapalle west reserve evergreen forest 1 compartment 5-*b* ..	12	9	..	..	12	9	No planting in 1886-87.
		Balapalle working circle 1 compartment 6-*b*	15	50	15	12	30	62	360 red sander seedlings put out in August 1886, many destroyed by deer.
		Kódúr tope	6	5	1	2	7	7	Sown with Tangedu seeds but failed.
		Ooparapalle	..	..	½	..	½	..	Drisanam Chinduga and Tangedu were dibbled in and germinated, but died away.
	Proddutur and Jammalamadugu.	Gandikota reserve	320	18	1	..	321	18	20 lbs. vepa seeds sown but with little success.
		Pennér river bank near Proddutur.	107	73	28	41	135	114	18,000 palmyra seeds sown.
	Váyalpád	Ankalammakonda	15	20	7	41	22	61	Tangedu was dibbled in but has not been very successful.
		Nurupupalakonda	..	..	5	41	5	41	Do. do.
	Kádiri	Nigadi	3	..	1	..	4	..	Tangedu seed dibbled in.
	Madanapalle ..	Horsleykonda	..	..	2	..	2	..	Hill side sown with sandalwood seed.
		Do.	..	..	..	..	..	..	Planted with Chinna tallow trees.
		Do.	..	..	..	..	..	..	Sandal seedlings planted in the garden.
		Do.	..	..	1	..	1	..	Sown with *Hardwickia binata* on hill side seed germinated but failed.
	Kódúr	Balapalle	½	250	..	409	2	659	Nurseries.
	Madanapalle ..	Horsleykonda	1	..	..	39	1	39	
		Total ..	627	623	133	764	760	1,387	
Kurnool	Nandyál	Orwakul	46	30	— 46	— 30	..	..	Abandoned as the experiment was a complete failure.
	Nandikótkur ..	Mandalam	10	10	— 10	— 10	..	..	
		Total ..	56	40	— 56	— 40	..	..	
Bellary	Hospet	Gandlavattugiri	4	..	..	..	4	..	
		Nayanahalli	10	..	..	..	10	..	
		Total ..	14	..	..	..	14	..	
		Total Plantations ..	6,426	4,05,122	— 2½	9,191	6,423½	4,14,313	
		Total Cultural operations ..	751½	3,345	127	1,662	878½	5,007	
		Grand Total ..	7,177½	4,08,467	124½	10,853	7,302	4,19,320	

Annual Form No. 61.

Forest Department, Madras, Northern Circle.

Annual statement of Topes.

District.	Taluk.	Number of topes.	Area.	Cost		Remarks.
				During year.	To end of year.	
			Acs.	Rs.	Rs.	
Ganjam ..	Berhampore	3	13	..	..	
	Goomsur	1	83	36	198	
	Chicacole	3	5	..	..	
Vizagapatam ..	Pálkonda	2	56	..	8	Mixed trees.
Godávari ..	Rámachandrapuram ..	8	30	..	..	
Kistna	Bandar	2	9	226	477	In Masulipatam.
	Gudiváda	1	5	37	207	
	Bezváda	2	9	48	371	
	Nandigáma	1	11	53	238	
	Vinukonda	1	6	43	209	
	Narsaraopet	1	7	43	174	
	Sattenapalle	1	6	..	..	
	Bápatla	1	2	37	1,241	
	Répalle	1	1	..	..	
	Palnád	1	21	60	396	Transferred from form 60. Plantation.
Nellore	Gúdúr	11	124	..	3,206	
	Rápúr	15	183	..	8,533	
	Nellore	33	380	..	6,599	
	Venkatagiri	3	12	..	4,420	
	Atmakúr	9	130	..	2,793	
	Kávali	17	742	..	4,190	
	Udayagiri	4	29	..	2,665	
	Kandukúr	6	13	..	1,853	
	Kanigiri	5	19	..	1,408	
	Ongole	4	107	..	1,212	
	Podili	4	13	..	1,165	
Cuddapah ..	Pullampet	7	69	158	5,417	
	Sidhout	4	40	99	8,039	
	Badvél	6	63	102	2,567	
	Proddutur	2	32	1,194	1,710	
	Jammalamadugu ..	9	309	132	12,351	
	Pulivendla	10	638	180	4,725	
	Cuddapah *	7	148	295	5,861	
	Kadiri	8	73	17	2,142	
	Madanapalle	8	68	184	6,232	
	Ráyachóti	5	95	..	1,615	
	Váyalpád	3	30	13	3,438	
	All	..	5,764	..	..	Scattered trees in villages.
Kurnool	Rámallakót	7	66	..	839	
	Pattikonda	5	29	..	1,879	
	Kóilkuntla	4	9	..	3,683	
	Nandikótkur	1	2	44	257	
	Nandyál	3	33	100	1,077	
	Sirvel	1	6	..	147	
	Cumbum	3	23	86	261	
	Márkápur	3	14	..	257	
Bellary	Bellary	6	86	..	..	
	Kúdligi	4	9	..	..	
	Hadgalli	2	11	..	41	
	Harpanahalli	2	3	..	..	
	Alúr	11	101	..	..	
	Adóni	6	30	..	186	
Anantapur ..	Anantapur	5	124	..	125	The Collector having reported that the figures given in this year's return are correct, I have adopted them; hence is the difference in the number of topes, area and cost.
	Gooty	10	184	..	48	
	Tadpatri	15	565	..	48	
	Dharmavaram	29	1,555	96	2,174	
	Hindupur	16	121	..	90	
	Penukonda	15	310	..	..	
	Madaksira	5	26	..	36	
Nílgiris	Coonoor	1	2	156	625	
	Total ..	363	12,654	3,439	1,07,433	

* Bhakarapet tope 7-A made over to District Board.

Annual Form No. 62.

Forest Department, Madras, Northern Circle.

Area of Forest tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87.

District and Range.	Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Ganjam .. Berhampore	Mohiri hills	19,199	305	19,200	320	18,880	174	479	1885	Specially protected.
Ganjam .. Kukuluba	Chondargiri and Ambazara ..	46,045	353	5,120	480	4,640	103	456	1885	Specially protected.
Ganjam .. Mojagodo	Baibali and Darpangia	21,775	125	21,775	..	21,775	..	125	1885	Specially protected.
	Total ..	87,019	783	46,095	800	45,295	277	1,060		
Godávari. Bhadráchalam	Rapak	..	..	12,600	..	12,600	..	..	1887	Ordinary staff.
Godávari. Bhadráchalam	Rámachandram	..	..	10,300	..	10,300	..	..	1887	Ordinary staff.
Godávari. Bhadráchalam	Tatlunka	..	..	800	..	800	..	..	1887	Ordinary staff.
Godávari. Rajahmundry	Devanecheruva	..	..	5,000	..	5,000	..	..	1887	Ordinary staff.
Godávari. Rajahmundry	Kothapalle	..	..	21,700	..	21,700	..	..	1887	Ordinary staff.
	Total ..	..	..	50,400	..	50,400	..	..		
Kistna .. Bezváda	Kondapalle	8,320	740	8,320	320	8,000	504	1,244	1884	Specially protected.
Kistna .. Vinukonda	Bollapalle	6,400	614	6,400	..	6,400	57	671	1885	Specially protected.
Kistna .. Palnád	Mutukur	6,400	95	6,400	73	6,327	100	195	1885	Specially protected.
Kistna .. Palnád	Madhinapadu	1,920	110	1,920	..	1,920	82	192	1885	Specially protected.
	Total ..	23,040	1,559	23,040	393	22,647	743	2,302		
Nellore .. Rápúr	Rápúr Veligondas	13,000	60	14,000	1,000	13,000	135	195	1885	Ordinary staff.
Nellore .. Udayagiri	Udayagiri	8,000	70	9,360	1,360	8,000	..	70	1885	Ordinary staff.
Nellore .. Kanigiri	Kanigiri	34,000	..	34,000	..	34,000	..	..	1885	Ordinary staff.
	Total ..	55,000	130	57,360	2,360	55,000	135	265		
Cuddapah .. Kódúr	Ballipalle, (west)	6,307	1,351	6,307	..	6,307	233	1,584	1867	Specially protected.
Cuddapah .. Kódúr	Do. (east)	6,404	1,389	8,960	2,500	6,460	302	1,691	1871	Specially protected.
Cuddapah .. Kódúr	Kódúr hill	4,687	913	7,440	1,000	6,440	309	1,222	1874	Ordinary staff.
Cuddapah .. Kódúr	Vagetikona	3,595	466	3,595	1,280	2,315	51	517	1874	Ordinary staff.
Cuddapah .. Kódúr	Yerraguntlakota	3,487	856	3,000	150	2,850	144	1,000	1873	Specially protected.
Cuddapah .. Kódúr	Rallakonda	1,565	321	1,565	1,565	..	57	378	1879	Specially protected.
Cuddapah .. Kódúr	Gadela	9,682	549	6,800	6,000	800	98	647	1874	Ordinary staff.
Cuddapah .. Kódúr	Thanakonda	1,048	351	1,048	7	1,041	56	407	1874	Specially protected.

Area of Forest tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Cuddapah —*cont.*	Rájampet .. .. Rollamadugu	5,424	154	5,424	..	5,424	90	244	1878	Ordinary staff.
	Srirangarazupallium	4,640	562	5,000	680	4,320	177	739	1883	Specially protected.
	Kadiri .. .. .. Nigadi	14,000	577	14,000	800	13,200	110	687	1881	Specially protected.
	Malakavemula	8,480	319	8,500	..	8,500	68	387		
	Kondakomerla	3,700	188	3,700	..	3,700	16	204		
	Thummala	2,495	227	2,495	2,495	..	..	227	1881	
	Kokanti	2,000	162	2,000	..	2,000	22	184		
	Gorivikanama	18,000	195	18,000	..	18,000	14	209		Ordinary staff.
	Madanapalle .. .. Rekkalakonda	1,200	155	1,200	..	1,200	12	167		
	Mallayakonda	2,200	183	2,200	..	2,200	11	194		
	Kosuvaripalle	1,400	120	1,400	..	1,400	12	132		
	Soampalle	800	98	800	..	800	..	98		
	Horsleykonda	9,630	384	9,630	600	9,030	95	479	1881	Specially protected.
	Yellutla	3,500	195	3,500	..	3,500	12	207		Ordinary staff.
	Nadimcherla	2,000	188	2,000	..	2,000	13	201		
	Váyalpád .. .. Nurukuppalakonda	4,600	278	3,600	..	3,600	46	324		Specially protected.
	Ankalammakonda	2,000	267	2,000	..	2,000	44	311		
	Gorantlapalle	4,000	181	4,000	..	4,000	13	194		Ordinary staff.
	Cuddapah .. .. Mamillapalle	2,436	458	3,000	700	2,300	204	662		
	Cuddapah and Ráyachóti. Guvalacheruvu	7,600	351	7,600	7,000	600	240	591	1883	Specially protected.
	Ráyachóti .. .. Gadikota	12,000	500	12,480	8,480	4,000	185	685		
	Sibyala	..	..	3,500	..	3,500	10	10	1887	Ordinary staff.
	Tsundupalle	..	..	3,000	..	3,000	5	5		
	Sidhout .. .. .. Arapayakanama	2,000	379	10,000	7,500	2,500	119	498	1883	
	Badvél .. .. .. Kanamalapalle	..	..	4,435	3,325	1,110	191	191	1887	Specially protected.
	Kottakota	7,192	253	8,640	25	8,615	183	436	1885	
	Mudireddipalle	8,800	499	12,000	3,000	9,000	157	656	1883	
	Proddutur .. .. Rameswaram	91	28	91	..	91	1	29		
	Thalamapuram	153	33	153	..	153	1	34		
	Vellala	258	33	258	..	258	1	34		
	Alladupalle	197	32	197	..	197	1	33		
	Payadala	99	18	99	..	99	1	19		
	Nidijuvi	696	78	696	..	696	7	85		
	Kothapalle	120	18	120	..	120	1	19	1881	Ordinary staff.
	Kalamalla	430	62	430	..	430	6	68		
	Modanathipalle	86	18	86	..	86	..	18		
	Ananthapuram	138	18	138	..	138	1	19		
	Kallur	160	17	160	..	160	..	17		
	Jammalamadugu .. Kondasankesula	858	67	858	..	858	10	77		
	Gandikota	372	71	372	172	200	10	81		
	Kosinepalle	300	51	300	..	300	7	58		

Area of Forest tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Cuddapah—*cont.*	Jammalamadugu—*cont.*									
	Yamavaram	200	66	200	200	..	4	70	1881	Ordinary staff.
	Dhodiem	689	38	689	..	689	5	43		
	Murupandi	786	38	786	..	786	5	43		
	Malamedikambaladinne	787	62	787	..	787	5	67		
	Kódúr	579	60	579	..	579	5	65		
	Aravetipalle	200	22	200	..	200	6	28		
	Denepalle	350	18	350	..	350	7	25		
	Peddadudiala	300	24	300	..	300	6	30		
	Total ..	1,74,721	13,941	200,668	47,479	153,189	3,389	17,330		
Kurnool ..	Atmakúr									
	Atmakur-Velgode	14,500	2,480	14,500	..	14,500	..	2,480	1884	Ordinary staff.
	Total ..	14,500	2,480	14,500	..	14,500	..	2,480		
Bellary ..	Sandúr									
	Sandúr	2,750	963	2,750	..	2,750	130	1,093	1883	Specially protected.
	Hospet	1,050	712	1,050	1,050	..	50	762		
	Venkatagiri	1,150	285	1,150	300	850	54	339		
	Gound	5,050	397	5,050	2,050	3,000	239	636		
	Gurga	2,430	520	2,430	830	1,600	115	635		
	Kanavahalli	4,160	429	4,160	1,660	2,500	197	626		
	Dharmapúr	2,150	302	2,150	..	2,150	102	404		
	Basapúr	2,230	157	2,230	1,200	1,030	106	263		
	Konapúr	1,960	167	1,960	1,600	360	93	260		
	Honsahatti	3,040	169	3,760	..	3,760	178	347	1885	
	Kakbál	2,040	194	3,240	..	3,240	153	347		
	Joga	1,640	230	2,440	1,040	1,400	115	345		
	Madarhalli	..	187	2,380	..	2,380	113	300		
	Yethinahatty	..	..	2,443	..	2,443	116	116		
	Basapúr D.	..	..	419	..	419	20	20		
	Hosahalli	..	..	1,206	..	1,206	57	57		
	Muthakalpeta	..	..	1,342	..	1,342	63	63		
	Appanahally	..	..	1,239	..	1,239	59	59	1886-87	
	Obligundi	..	..	2,069	340	1,729	98	98		
	Lingathahally	..	..	486	..	486	23	23		
	Western Range ..									
	Shivpúr	9,000	117	9,000	..	9,000	295	412	1885	
	Sherbi	..	..	3,000	..	3,000	63	63	1886-87	
	Sunkadakal	..	..	7,000	..	7,000	13	13		
	Bellary									
	Malpangudi	700	200	700	..	700	87	287	1884	

Area of Forest Tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1886.		During dry Season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Bellary—*cont.*	Kúdligi and Hospet .. Bandri	..	..	7,000	..	7,000	..	..	..	Ordinary staff.
	Hospet .. .. .. Gound	..	..	3,000	..	3,000	..	..	..	
	Hospet	..	..	5,000	..	5,000	..	..	..	
	Jog ..	..	..	4,000	..	4,000	..	..	..	
	Thornagal	..	..	2,100	1,600	500	..	..	..	
	Oblagundi	..	..	1,000	..	1,000	..	..	..	
	Bellary .. .. .. Bellary	..	..	8,000	7,000	1,000	..	..	..	
	Mincheri	..	..	4,000	..	4,000	..	..	..	
	Kódligi .. .. .. Gollalinganahally	..	..	1,000	..	1,000	..	..	..	
	Tummurgudy	..	..	2,500	..	2,500	..	..	..	
	Somalapúr	..	..	1,000	..	1,000	..	..	..	
	Adóni, (west)	..	..	5,000	480	4,520	..	..	..	
	Do. (east)									
	Ganekola	..	..	1,118	..	1,118	..	..	..	
	Badanahatty	..	..	792	..	792	..	..	..	
	Kowtalam	..	..	681	..	681	..	..	..	
	Halikota	..	..	486	..	486	..	..	..	
	Sulakeri	..	..	1,342	..	1,342	..	..	..	
	Adóni .. .. .. Kupgal	..	..	4,650	..	4,650	..	..	..	
	Tungabhadra	..	..	4,633	..	4,633	..	..	..	
	Halvey	..	..	1,145	..	1,145	..	..	..	
	Kosgi	..	..	2,970	..	2,970	..	..	..	
	Nandavaram	..	..	971	..	971	..	..	..	
	Ráyachóti	..	..	1,863	..	1,863	..	..	..	
	Kurimetla	..	..	3,341	..	3,341	..	..	..	
	Bemivasi	..	..	1,964	..	1,964	..	..	..	
	Kotakallu	..	..	2,569	..	2,569	..	..	..	
	Kudbur	..	..	2,952	..	2,952	..	..	..	
	Hadgalli and Harpanahalli. Harada	..	..	18,000	18,000	..	..	..	..	
	Sogy	..	..	4,200	4,200	..	..	..	..	
	.... Raidroog	..	..	6,000	..	6,000	..	..	..	
	.... Dharmapuri	..	..	3,600	..	3,600	..	..	..	
	.... Aduguppa	..	..	1,000	..	1,000	..	..	..	
	Total ..	39,350	5,029	171,531	41,350	130,181	2,539	7,568	..	
Anantapur.	Penukonda .. .. Kottakota	5,120	544	5,120	4,500	620	271	815		
	Muchukota .. .. Muchukota	16,000	1,736	16,000	51	15,949	697	2,433	1884	Specially protected.
	Amagondapolliam	15,360	341	15,360	..	15,360	336	677		
	Hindupur .. Dokulkonda	2,880	29	2,880	..	2,880	4	33	1885	Fire patrols.
	Somarazmalai	1,920	29	1,920	..	1,920	29	58		
	Narsimpalle	..	..	1,280	..	1,280	12	12	1886	Do.
	Penukonda .. Mallapakonda	..	..	5,120	511	4,609	8	8		
	Total ..	41,280	2,679	47,680	5,062	42,618	1,357	4,036	..	

Area of Forest Tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.		Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Nílgiris ..	Mudumalai	Mudumalai plantation	101	956	101	..	101	* 1,081	2,037	1883	Specially protected.
		Benne do.									
		Northernhay	23	559	23	..	23	127	686		
		Moyar	..	..	13,238	..	13,238	58	58	1886	Ordinary staff and fire patrols.
		Singara	..	..	1,970	..	1,970	34	34		
		Bockepuram	..	..	2,008	..	2,008	34	34		
		Kalhatti	..	..	5,005	..	5,005	34	34		
		Sigúr	..	..	48,022	..	48,022	34	34		
		Aramby	430	177	430	..	430	22	199	1883	Specially protected.
		Marliamund plantation	17	125	17	..	17	32	157		
		Governor's shola	1,341	459	670	..	670	92	551		
		Cairn hill	403	154	403	..	403	44	198		
		Pykara	844	75	844	..	844	27	102		
		Muthanad	457	171	457	..	457	40	211		
		Snowdon	987	64	1,053	..	1,053	11	75		
		Dodabetta	826	62	23	..	23	7	69		
		Elk hill	184	161	184	..	184	12	173		
		Lovedale, (east)	..	..	127	..	127	14	14	1886	Ordinary staff and fire patrols.
		Do. (west)	..	..	74	..	74	15	15		
		Ulnad	..	..	430	..	430	28	28		
	Ootacamund	Dodabetta, Nos. I and II	..	..	773	..	773	7	7		
		Woodcock, Nos. I, II and III ..	..	..	24	..	24	7	7		
		Kotagiri trace, Nos. I and II ..	..	..	51	..	51	7	7		
		Yemmaikal	..	..	461	250	211	20	20		
		Sandynullah	..	..	818	..	818	14	14		
		Kengodu	..	..	415	..	415	14	14		
		Ebanád	..	..	571	..	571	29	29		
		Kadcoopa	..	..	1,622	..	1,622	14	14		
		Pichelbettu	..	..	1,668	..	1,668	14	14		
		Ithalár	..	..	242	..	242	14	14		
		Puthuhatty	..	..	27	..	27	14	14		
		Nergodumund	..	..	55	..	55	14	14		
		Jakuntha	..	..	370	..	370	14	14		
		Honnathalai	..	..	320	..	320	43	43		
	Coonoor	Kullár	803	61	803	..	803	138	199	1883	Specially protected.
		Aduthoré	760	46	760	..	760	62	108		
		Barliyár	126	61	126	..	126	25	86		
		Hulikal	2,280	176	2,280	..	2,280	73	249		
		Rallia	105	155	105	..	105	66	221		
		Lamb's rock	716	151	716	..	716	79	230		
		Commandu	993	61	993	..	993	54	115		

* Includes camping grounds.

Area of Forest Tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Nílgiris—*cont.*	Coonoor .. .. .. Tiger hill	317	53	317	..	317	24	77		
	Ghât reserve	261	67	261	..	261	85	152		
	Coonoor peak	256	93	256	..	256	32	125		
	Hill grove	155	31	..	..	..	..	31		
	Benhope	46	48	46	..	46	25	73		
	Sim's park and Spring field ..	70	37	70	..	70	25	62		
	Bandy shola	111	37	111	..	111	18	55	1883	Specially protected.
	Devashola, (north and south) ..	214	47	214	..	214	47	94		
	Bleak house	56	39	56	..	56	17	56		
	River reserve	53	47	53	..	53	37	84		
	Black bridge	391	83	391	..	391	34	117		
	Town shola	11	16	11	..	11	29	45		
	Brooklands	14	31	14	..	14	16	47		
	Jakanare	..	..	..	..	..	50	50	1886	
	Kotagiri .. .. .. Longwood	262	252	262	..	262	67	319	1885	
	Kunnavara	..	..	100	..	100	48	48		
	Kesalhada	..	..	156	..	156	41	41	1886	
	Kerbetta	..	..	12	..	12	35	35		
	Nott shola	..	..	8	..	8	31	31		
	Naduvatam .. .. Naduvatam sholas	..	65	..	..	..	56	121	1885	Ordinary staff and fire patrols.
	South-East Wynaad reserves ..	..	..	..	..	..	63	63	1886	
	Kundahs .. .. Kundahs			40,521	..	40,521				
	Thiashola	..	85	1,551	..	1,551	97	182	1885	
	Mikkeru			1,267	..	1,267				
	Heriyashige			2,175	..	2,175				
	Melúr .. .. .. Pembroke	..	..	122	..	122	46	46	1886	
	Thalakád	..	..	231	..	231	37	37		
	Total ..	13,613	4,705	136,484	250	136,234	3,428	8,133		
	ABSTRACT.									
	Total .. Specially protected	302,698	24,294	313,224	53,657	259,567	10,216	34,510		
	Ordinary Staff	145,825	7,012	434,534	44,037	390,497	1,652	8,664		
	Grand Total ..	448,523	31,306	747,758	97,694	650,064	11,868	43,174		

Annual Form No. 63.

Forest Department, Madras, Northern Circle.

Prosecutions for breaches of forest rules during 1886-87.

District.	Cases pending from 1885-86.	New Cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
								Convictions.		Acquittals.		Total.		
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ganjam ..	14	..	196	..	..	196	210	125	387	67	280	192	667	18
Vizagapatam.	1	..	63	..	8	71	72	49	110	15	30	64	140	8
Godâvari ..	4	..	37	..	23	60	64	48	64	11	41	59	105	5
Kistna ..	2	1	122	2	37	162	164	118	210	20	95	138	305	26
Nellore ..	23	..	74	..	1	75	98	34	89	52	121	86	210	12
Cuddapah ..	9	8	112	22	9	151	160	101	289	48	139	149	428	11
Kurnool ..	4	..	90	..	..	90	94	63	162	28	53	91	215	3
Bellary ..	6	1	42	10	7	60	66	30	71	32	124	62	195	4
Anantapur ..	3	5	72	17	4	98	101	66	171	23	89	89	260	12
Nîlgiris ..	..	2	25	..	4	31	31	23	61	4	19	27	80	4
Total ..	66	17	833	51	93	994	1,060	657	1,614	300	991	957	2,605	103

Cases compounded under section 55 of the Madras Forest Act.

														Amount for which these cases were compounded.
														Rs. A. P.
Ganjam ..	..	..	..	..	6	6	6	6	9	..	..	6	9	36 2 0
Vizagapatam.	..	..	22	..	..	22	22	22	22	..	..	22	22	139 14 0
Godâvari ..	..	..	1	..	..	1	1	1	1	..	..	1	1	5 0 0
Kistna ..	..	3	116	..	10	129	129	129	..	..	..	..	..	402 6 0
Nellore ..	..	..	24	..	..	24	24	24	77	..	..	24	77	66 4 0
Cuddapah ..	..	..	34	5	5	44	44	44	120	..	..	44	120	150 0 0
Kurnool ..	..	..	1	..	..	1	1	1	1	..	..	1	1	5 0 0
Bellary ..	..	..	1	..	..	1	1	1	1	..	..	1	1	35 0 0
Anantapur ..	..	..	10	2	..	12	12	12	19	..	..	12	19	18 2 0
Nîlgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	3	209	7	21	240	240	240	250	..	..	111	250	857 12 0

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1886-87.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
B.—"*Establishments.*"	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. "Conservancy and Works"	2,251	20,425	1,148	8,390	10,416	38,289	39,936	19,628	16,589	9,618	53,753	2,20,443
I.—Salaries—												
(*a*) Conservators	13,998	..	..	..	..	..	..	..	..	..	..	13,998
(*b*) Superior officers	9,008	5,712	4,200	5,631	900	10,397	10,195	3,485	7,039	4,508	9,935	71,010
(*c*) Subordinate Forest and Depôt Establishments	1,206	4,044	1,747	3,964	7,856	6,230	11,830	5,691	3,822	3,204	6,687	56,281
(*d*) Office Establishments	11,161	2,061	549	1,134	1,714	1,705	2,572	1,307	877	891	1,789	25,820
(*e*) Deputation and Special Allowances.	..	..	..	..	..	..	..	..	..	..	..	..
II.—Travelling Allowances—												
(*a*) Conservators	3,303	..	..	..	..	..	..	..	..	..	..	3,303
(*b*) Superior officers	2,268	1,533	1,440	1,584	275	1,571	1,524	1,152	1,784	1,440	1,800	16,371
(*c*) Subordinate Forest and Depôt Establishments	597	1,185	433	1,507	2,142	1,383	3,228	1,264	473	561	1,613	14,386
(*d*) Office Establishments	1,543	517	261	268	325	343	479	241	127	205	121	4,430
III.—Contingencies—												
(*a*) Stationery	74	1	..	..	13	18	..	16	1	..	..	123
(*b*) Carriage of Tents and Records ..	433	8	45	124	172	146	84	125	39	89	..	1,265
(*c*) Rents, Rates and Taxes	966	..	..	180	74	300	134	..	160	11	360	2,185
(*d*) Pay of Police Guards	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Official Postage	465	132	34	160	323	251	333	236	105	120	107	2,266
(*f*) Sundries	1,390	363	11	123	125	316	59	76	49	287	286	3,085
Total B, "Establishments" ..	46,412	15,556	8,720	14,675	13,919	22,660	30,438	13,653	14,476	11,316	22,698	2,14,523
Grand Total of Expenditure .	48,663	35,981	9,868	23,065	24,335	60,949	70,374	33,281	31,065	20,934	76,451	4,34,966

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM NO. 64.

Forest Department Madras, Northern Circle.

Summary of Revenue of the different districts, 1886-87.

Budget heads, Receipts.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I.—Timber and other produce removed from the forests by Government Agency—												
(*a*) Timber	..	2,814	14	52	..	394	34,955	..	365	12	6,642	45,248
(*b*) Firewood and charcoal	..	21	..	..	24	39,423	..	19,297	4,483	35	13,244	76,527
(*c*) Bamboos	..	..	..	..	..	..	..	..	932	..	..	932
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	9,000	9,000
(*e*) Grass and other minor produce ..	..	123	..	..	..	2,250	178	..	90	250	1,054	3,945
II.—Timber and other produce removed from the forests by consumers or purchasers—												
(*a*) Timber	..	384	461	23,843	12,389	6,337	18,982	42,738	1,105	948	1,925	1,09,112
(*b*) Firewood and charcoal	..	12,344	2,398	6,215	8,052	4,816	50,465	17,589	3,259	2,068	5,702	1,12,908
(*c*) Bamboos	..	3,231	986	11,094	1,425	3	6,623	14,331	37	286	1,821	40,737
(*d*) Grazing and fodder grass	..	5	..	971	37,927	4,683	174	1,109	337	6	326	45,538
(*e*) Other minor produce	..	655	113	539	16,323	15,972	35,846	1,659	14,468	14,481	727	1,00,783
III.—Confiscated, drift and waifwood	..	196	4	3,110	256	134	307	486	21	32	8	4,554
IV.—Revenue from forests not managed by Government—												
V.—Miscellaneous—												
(*a*) Fines and forfeitures	..	..	28	..	..	..	28	..	..	..	..	56
(*b*) Refunds	38	41	71	39	21	37	319	38	8	31	12	529
(*c*) Other sources	31	13	290	5	550	362	506	259	72	78	213	2,379
Total Receipts ..	69	19,827	4,365	46,768	76,967	74,411	1,48,257	97,506	25,177	18,227	40,674	5,52,248

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1886-87.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godâvari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
A.—Conservancy and Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—Timber and other produce removed from the forests by Government Agency—												
(*a*) Timber	..	3,981	..	4	14	65	13,767	..	46	6	1,938	19,821
(*b*) Firewood and charcoal	..	191	..	..	26	27,082	..	11,568	679	2	14,107	53,655
(*c*) Bamboos	..	7	..	..	..	..	..	..	242	..	..	249
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	3,529	3,529
(*e*) Grass and other minor produce	..	354	..	..	1	1,983	1,629	163	50	250	847	5,277
II.—Timber and other produce removed from the forests by consumers or purchasers	..	2,757	817	4,503	1,875	250	5,365	5,284	..	229	1,204	22,284
III.—Confiscated, drift and waif wood	..	155	..	425	24	..	42	26	..	..	..	672
IV.—Revenue from forests not managed by Government	..	356	..	..	..	..	..	..	..	..	..	356
V.—Rent of leased forests, and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	10,000	..	3,500	13,500
VI.—Live stock, stores, tools and plant—												
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	..	..	..	..	..	..	..	..	..	..	1,483	1,483
(*c*) Stores, tools and plant	631	338	183	1,010	319	2,843	174	212	714	366	1,637	8,427
VII.—Communications and buildings—												
(*a*) Roads and bridges	..	4,091	..	228	..	..	1,907	..	152	615	4,224	11,219
(*b*) Buildings	..	3,425	..	85	70	140	2,331	822	6	4,727	2,855	14,461
(*c*) Other works	..	..	..	..	44	..	..	..	..	..	5	49
VIII.—Demarcation, improvement and extention of forests—												
(*a*) Demarcation	..	3,463	148	1,901	1,986	73	5,467	730	1,290	1,550	2,937	19,545
(*b*) Compensation for land and rights	..	226	..	..	..	..	1,694	558	376	..	100	2,954
(*c*) Surveys and working plans	17	215	..	..	22	..	..	..	..	..	546	800
(*d*) Plantations	1,178	97	..	84	4,563	5,330	2,690	230	238	345	9,135	23,890
(*e*) Protection from fire	..	269	..	..	852	264	3,464	5	2,417	1,433	3,429	12,133
(*f*) Other works	..	370	..	..	393	206	1,030	..	296	..	1,957	4,252
IX.—Miscellaneous—												
(*a*) Refunds	..	7	..	74	8	6	122	30	16	40	184	487
Law charges	..	18	..	..	..	47	10	..	..	15	128	218
Other charges	425	105	..	76	219	..	244	..	67	38	8	1,182
Total A.—Conservancy and Works	2,251	20,425	1,148	8,390	10,416	38,289	39,936	19,628	16,589	9,618	53,753	2,20,443

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 65.

Forest Department, Madras, Northern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1886-87

District.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator's office, Northern Circle ..	..	2,230 3 10	2,230 3 10	267 2 11	2,005 7 9	2,272 10 8	42 6 10	..	
Two-fifths of Examiner's office	..	1,678 12 1	1,678 12 1	30 15 3	1,648 3 4	1,679 2 7	0 6 6	..	
Forest Settlement-officer, Kurnool ..	..	800 0 0	800 0 0	..	800 0 0	800 0 0	..	..	
Do. Nílgiris	..	..	..	..	..	..	..	..	
Do. Nellore and Bellary.	..	..	..	..	20 0 0	20 0 0	20 0 0	..	
Ganjam	..	28,017 2 3	28,017 2 3	1,053 1 4	29,591 9 2	30,644 10 6	2,627 8 3	..	
Vizagapatam	..	3,058 12 2	3,058 12 2	390 6 4	3,067 11 7	3,458 1 11	399 5 9	..	
Godávari	..	12,072 7 6	12,072 7 6	729 8 1	12,301 6 4	13,030 14 5	958 6 11	..	
Kistna	..	18,653 8 10	18,653 8 10	919 14 11	19,579 11 0	20,499 9 11	1,846 1 1	..	
Nellore	17 6 7	44,563 9 8	44,581 0 3	2,777 6 11	46,700 7 3	49,477 14 2	4,896 13 11	..	
Cuddapah	..	41,240 6 5	41,240 6 5	902 6 0	40,903 0 4	41,805 6 4	574 1 9	9 1 10	
Kurnool	..	12,495 2 11	12,495 2 11	876 4 8	13,287 11 4	14,164 0 0	1,668 13 1	..	
Bellary	..	9,085 13 4	9,085 13 4	237 15 10	9,286 11 11	9,524 11 9	438 14 5	..	
Anantapur	..	8,341 10 3	8,341 10 3	121 4 7	8,370 0 0	8,491 4 7	149 10 4	..	
Nílgiris	..	21,141 13 6	21,141 13 6	1,097 4 11	20,745 10 7	21,842 15 6	701 2 0	..	
Forest school, Dehra Dún	..	1,406 10 4	1,406 10 4	..	1,469 10 4	1,469 10 4	63 0 0	..	
Total ..	17 6 7	2,04,786 1 1	2,04,803 7 8	9,403 11 9	2,09,777 4 11	2,19,181 0 8	14,386 10 10	9 1 10	

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Northern Circle.

Revenue received and outstandings on account of revenue during 1886-87.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.	Remarks.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Ganjam	Timber and other produce	1,914 14 7	17,912 9 11	19,827 8 6	19,826 12 11	0 11 7	
Vizagapatam	Do.	..	4,364 14 9	4,364 14 9	4,364 14 9	..	
Godávari	Do.	..	46,768 13 2	46,768 13 2	46,768 13 2	..	
Kistna	Do.	..	76,966 15 4	76,966 15 4	76,966 15 4	..	
Nellore	Do.	901 12 0	77,825 7 0	78,727 3 0	* 75,139 7 2	3,587 11 10	* Includes Rs. 728-8-0 written off the accounts as per G.O., No. 74, dated 21st January 1887, communicated in Board's Proceedings, No. 75, dated 10th February 1887.
Cuddapah	Do.	16 0 0	1,48,256 15 0	1,48,272 15 0	† 1,48,272 15 0	..	† Includes Rs. 16 written off in the accounts.
Kurnool	Do.	..	97,505 11 0	97,505 11 0	97,505 11 0	..	
Bellary	Do.	2 4 0	25,177 13 10	25,180 1 10	25,177 13 6	2 4 4	
Anantapur	Do.	..	18,226 5 2	18,226 5 2	18,226 5 2	..	
Nílgiris	Do.	3,005 5 6	38,950 7 2	41,955 12 8	40,673 13 3	1,281 15 5	
Direction	Do.	..	68 12 0	68 12 0	68 12 0	..	
	Total ..	5,840 4 1	5,52,024 12 4	5,57,865 0 5	5,52,992 5 3	4,872 11 2	

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts,

Annual Form No. 67.

Forest Department, Northern Circle.

Financial results of the year 1886-87.

Districts.	Timber and other produce removed from the Forests by Government Agency.		Other Revenue.		Formation, protection and improvement of Forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjam	2,958	21,354	16,876	8,318	11,064	19,834	40,736
Vizagapatam	14	..	4,357	5,951	5,580	4,371	11,531
Godâvar	52	5,538	46,723	12,171	10,111	46,775	27,820
Kistna	24	204	76,950	11,178	17,708	76,974	29,980
Nellore	42,067	44,975	32,352	7,462	14,814	74,419	67,251
Cuddapah	35,133	24,927	1,13,131	20,057	32,803	1,48,264	77,787
Kurnool	19,297	19,378	78,216	11,924	8,281	97,513	39,583
Bellary	5,870	5,328	19,314	17,026	11,919	25,184	34,273
Anantapur	297	3,452	17,936	11,084	9,606	18,233	24,142
Nîlgiris	29,940	40,702	10,741	8,325	33,726	40,681	82,753
Total ..	1,35,652	1,65,858	4,16,596	1,13,496	1,55,612	5,52,248	4,34,966

Annual Form No. 68.

Forest Department, Madras, Northern Circle.

Trees felled by Government Agency during the year 1886-87.

(Selection Fellings.)

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees.					Remarks.
			On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year.		
						How disposed of.	Number.	Total.	Balance at end of the year.	
Ganjam	Kukkúlubá range	Sál	103	121	224	Converted into logs	187	187	37	
		Sajo	..	41	41	Do. do.	36	36	5	
		Dhau	8	19	27	Do. do.	19	19	8	
		Ebony	..	4	4	Do. do.	4	4	..	
		Miscellaneous	..	33	33	Do. do.	18	18	15	
	Mojagodo	Sál	..	281	281	Do. do.	281	281	..	
		Sajo	..	19	19	Do. do.	19	19	..	
		Dhau	..	6	6	Do. do.	6	6	..	
		Miscellaneous	..	121	121	Do. do.	121	121	..	
	Suradá	Satinwood	..	8	8	Do. do.	8	8	..	
		Total, Ganjam ..	111	653	764	....	699	699	65	
Godávari	Wuddagudiem range ..	Nallamaddi	112	3	115	....	..	..	115	
		Sombi	21	..	21	....	..	..	21	
		Chiriman	24	..	24	....	..	..	24	
		Ippa	25	1	26	....	..	..	26	
		Chimpangi	15	..	15	....	..	..	15	
		Bandaru	1	..	1	....	..	..	1	
		Konda Tangedu	2	180	182	....	..	..	182	
		Total, Godávari ..	200	184	384	....	..	..	384	
Kistna	Bezváda	Thumma	..	91	91	Converted into poles and fuel.	91	91	..	
		Total, Kistna ..	..	91	91	....	91	91	..	
Nellore	Kávali range	Casuarina	..	543	543	Converted into poles and fuel.	543	543	..	
	Tummalapenta plantation.									
	Udayagiri range ..	Miscellaneous	36	..	36	Do. sleepers ..	36	36	..	
		Total, Nellore ..	36	543	579	....	579	579	..	

Trees felled by Government Agency during the year 1886-87—*cont.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees. On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Cuddapah	Kodúr	Sandal	..	3	3	Sold	3	3	..	
		Red sander	..	177	177	Do.	177	177	..	
		Teak	..	10	10	Do.	10	10	..	
		Miscellaneous	..	308	308	Do.	308	308	..	
		Total, Cuddapah ..	..	498	498	....	498	498	..	
Anantapur ..	Khojjepalle reserve ..	Babul	..	246	246	Converted into 185 demarcation posts.	60	246	..	
						Sold by auction	185			
						Sent to exhibition	1			
		Palmyra	..	3	3	Sold by auction	3	3	..	
		Margosa	..	1	1	Sent to exhibition	1	1	..	
	Kottakota	Teak and billu	..	152	152	Converted into rafters ..	150	152	..	
						Exhibition	2			
		Yellama	..	1	1	....	1	1	..	
		Palmyra	..	5	5	Converted into beams ..	5	5	..	
						Sold	70			
	Muchukota	Yepi	..	73	73	Used departmentally for huts.	2	73	..	
						Sent to exhibition	1			
		Neem	..	2	2	Used departmentally for huts.	2	2	..	
	Yellutla	Babul	..	1	1	Exhibition	1	1	..	
		Total, Anantapur ..	..	484	484	....	484	484	..	
Nilgiris ..	Teppacadu block	Teak	..	137	137	Converted into logs	137	137	..	
		Do.	..	1,600	1,600	Do. poles ..	1,600	1,600	..	
		Blackwood	..	109	109	Do. logs and poles.	109	109	..	
		Vengai	..	222	222	Do. do. ..	222	222	..	
		Venteak	..	12	12	Do. do. ..	12	12	..	
		Mutti	..	40	40	Do. do. ..	40	40	..	
		Miscellaneous	..	2,070	2,070	Do. do. ..	2,070	2,070	..	
	Baikie reserve	Eucalyptus	..	3,970	2,970	Do. fuel ..	3,970	3,970	..	
	Aramby	Do.	..	2,519	2,519	Do. do. ..	2,519	2,519	..	
	Governor's shola	Do.	..	415	415	Do. do. ..	415	415	..	
	Cairn hill	Do.	..	1,763	1,763	Do. do. ..	1,763	1,763	..	
	Ulnad reserve	Do. and Acacia ..	..	527	527	Do. do. ..	527	527	..	
	Coonoor peak reserve ..	Do.	..	3,599	3,599	Do. do. ..	3,599	3,599	..	
	Bandy shola reserve	Acacia	..	221	221	Do. fuel & charcoal.	221	221	..	
		Total, Nilgiris ..	..	17,204	17,204	....	17,204	17,204	..	

Trees felled by Government Agency during the year 1886-87—*cont.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees.						Remarks.
			On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year.		Balance at end of the year.	
						How disposed of.	Number.	Total.	
	Abstract	Teak	..	1,899	1,899	....	1,899	1,899	..
		Venteak	..	12	12	....	12	12	..
		Sál	103	402	505	....	468	468	37
		Sandalwood	..	3	3	....	3	3	..
		Blackwood	..	109	109	....	109	109	..
		Satinwood	..	8	8	....	8	8	..
		Ebony	..	4	4	....	4	4	..
		Red sanders	..	177	177	....	177	177	..
		Ironwood	2	180	182	....	..	..	182
		Margosa	..	3	3	....	3	3	..
		Babul	..	338	338	....	338	338	..
		Yegi	..	222	222	....	222	222	..
		Yepi	..	73	73	....	73	73	..
		Chiriman	32	25	57	....	25	25	32
		Maddi	112	103	215	....	95	95	120
		Palmyra	..	8	8	....	8	8	..
		Eucalyptus	..	12,491	12,491	....	12,491	12,491	..
		Acacia	..	523	523	....	523	523	..
		Casuarina	..	543	543	....	543	543	..
		Miscellaneous	98	2,534	2,632	....	2,554	2,554	78
		Total ..	347	19,657	20,004	....	19,555	19,555	449

Annual Form No. 69.

Forest Department, Madras, Northern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam.	Mojagodo ..	Sálflogs ..	2,226	30,825	538	3,474	2,764	34,299	Taken to depôt.	375	1,681	2,233	30,858	
									Sold	156	1,760			
		Do. sleepers ..	..	..	257	341	257	341	Used departmentally.	151	200	106	141	
		Blackwood logs.	..	..	2	13	2	13	Taken to depôt.	2	13	..	..	
		Ebony	..	..	2	12	2	12	Do. ..	2	12	..	..	
		Piasál	..	..	1	8	1	8	Do. ..	1	8	..	..	
		Sajo	..	..	30	213	30	213	Do. ..	29	189	..	..	
									Sold	1	24			
		Dhau	..	..	10	172	10	172	Taken to depôt.	9	133	..	..	
									Sold	1	34			
		Miscellaneous ..	..	..	136	945	136	945	Taken to depôt.	136	945	..	..	
	Kukkúlubá.	Sál logs ..	159	3,941	627	4,346	786	8,287	Sold	163	2,262	370	2,412	
									Taken to depôt.	253	3,613			
		Piasál	1	11	14	158	15	169	Do. ..	14	158	1	11	
		Sajo	36	523	68	940	104	1,463	Do. ..	100	1,417	2	19	
									Less on measurement.	..	3			
									Sold	2	24			
		Dhau	43	724	42	515	85	1,239	Taken to depôt.	75	1,082	..	..	
									Sold	10	157			
		Ebony	..	..	4	24	4	24	Taken to depôt.	4	24	..	..	
		Miscellaneous ..	11	179	28	355	39	534	Do. ..	35	498	4	36	
	Suradá ..	Sajo	15	338	32	510	47	848	Taken to depôt.	25	437	22	411	
		Satinwood ..	..	..	8	89	8	89	Do. ..	8	89	..	..	
		Total, Timber ..	2,491	36,541	1,799	12,115	4,290	48,656	..	1,552	14,768	2,738	33,888	
	Do. ..	Fuel	..	..	Tons 514	25,700	Tons 514	25,700	..	..	..	Tons 514	25,700	
		Total, Fuel ..	..	..	Tons 514	25,700	Tons 514	25,700	..	..	..	Tons 514	25,700	
Vizagapatam.	Gólgonda ..	Miscellaneous ..	..	..	..	30	..	30	Sold	..	30	..	..	
		Total, Timber ..	..	..	..	30	..	30	..	..	30	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Godávari.	Rékapalle ..	Firewood ..	Tons 442	30,601	..	..	Tons 442	30,601	Washed by floods.	Tons 387	26,919	55	3,682	
		Total, Fuel ..	Tons 442	30,601	..	..	Tons 442	30,601	..	Tons 387	26,919	55	3,682	
	Godávari river.	Teak	..	..	822	5,117	822	5,117	Sold	822	5,117	..	..	Drift timber.
		Miscellaneous ..	..	..	703	6,005	703	6,005	Do.	703	6,005	..	..	
		Total, Timber ..	..	..	1,525	11,122	1,525	11,122	..	1,525	11,122	..	..	
Kistna.	Bezváda ..	Tumma poles ..	..	..	135	270	135	270	Used departmentally.	37	75	81	161	Estimate 2 cubic feet each.
									Sold	17	34			
		Total, Timber ..	..	..	135	270	135	270	..	54	109	81	161	
	Bezváda and Bapatla ..	Fuel	..	..	Tons 28	1,400	Tons 28	1,400	Taken to depôt.	Tons 7	350	Tons 18	900	
									Sold	„ 3	150			
		Total, Fuel ..	..	..	Tons 28	1,400	Tons 28	1,400	..	Tons 10	500	Tons 18	900	
Nellore.	Srihárikota	Building poles ..	..	..	3,676	2,441	3,676	2,441	Used Departmentally.	2,436	2,441	..	..	
									Madras depôt ..	1,240				
		Stakes and pegs.	..	..	46,000	920	46,000	920	Sold to Salt Department.	46,000	920	..	..	
		Mis. sticks ..	..	..	20,000	800	20,000	800	Used Departmentally.	20,000	800	..	..	
	Udáyagiri ..	Sleepers and posts.	339	565	..	..	339	565	Sold	339	565	..	..	
	Plantations N.	Casuarina poles.	..	..	644	737	644	737	Do.	644	737	..	..	
		Palmyra rafters, &c.	..	..	69	72	69	72	Do.	69	72	..	..	
		Total, Timber ..	339	565	70,389	4,970	70,728	5,535	..	70,728	5,535	..	..	
	Srihárikóta.	Junglewood ..	..	..	2,285,290	Ts. 2,812	2,285,290	Ts. 2,812	Madras depôt ..	2,285,290	Ts. 2,812	..	..	
		Do. bundle ..	..	..	31,073	1,243	31,073	1,243	Do. ..	31,073	1,243	..	..	
	Plantation S.	Casuarina ..	Tons 79	..	..	3,189	..	3,268	Do. ..	..	906	..	1,006	
									Sold	..	1,356			
	Do. N.	Do. ..	..	..	..	303	..	303	Do. ..	..	161	..	..	
									Madras depôt ..	..	142			
		Total, Fuel ..	Tons 79	3,950	..	Ts. 7,547 or 3,77,350	..	Ts. 7,626 or 3,81,300	..	..	Ts. 6,620 or 3,31,000	..	Ts. 1,006 or 50,300	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nellore—*cont.*	Srihárikót.	Nux-vomica ..	..	..	Mds. 1,096	..	Mds. 1,096	..	Madras depôt ..	Mds. 790	..	Mds. 306	..	
		Cheyroot ..	Mds. 287	..	,, 374	..	,, 661	..	.. ..	..	..	,, 661	..	
		Suratichekka ..	,, 93	..	..	..	,, 93	..	Madras depôt ..	,, 86	..	..	..	
									Dryage ..	,, 7				
		Soapnuts ..	..	..	,, 395	..	,, 395	..	Madras depôt ..	,, 395	..	..	..	
		Orchella ..	,, 10	..	,, 3	..	,, 13	..	Sold	,, 13	..	..	..	
		Honey ..	,, 2	..	,, ½	..	,, 2½	..	Do.	,, 2½	..	..	..	
		Tangedu ..	,, 63	..	..	..	,, 63	..	..	..	..	Mds. 63	..	
		Wax	..	..	,, ½	..	,, ½	..	Sold	,, ½	..	..	..	
		Tamarind ..	..	..	,, 201	..	,, 201	..	Do.	,, 201	..	..	..	
		Rattans ..	Bdls. 65	..	Bdls. 145	..	Bdls. 210	..	Madras depôt ..	,, 210	..	..	..	105 maunds estimate.
		Total, Minor produce ..	Mds. 488	..	Mds. 2,142	..	Mds. 2,630	..	..	Mds. 1,600	..	Mds. 1,030	..	
Cuddapah.	Kodúr ..	Red sander roots, &c.	..	..	Tons 1,897¼	94,874	Ts. 18,97¼	94,874	Taken to depôt.	Tons. 1,897¼	94,874	..	..	
	Rájampet ..	Red sander posts, &c.	..	..	No. 726	726	,, 726	726	Do. ..	,, 726	726	..	..	
	Do. ..	Miscellaneous trees.	..	..	,, 2	2	,, 2	2	Do. ..	,, 2	2	..	..	
	Cuddapah ..	Palmyra trees ..	..	..	,, 49	98	,, 49	98	Sold	,, 49	98	..	..	
		Total, Timber ..	..	..	Tons 1,914	95,700	Ts. 1,914	95,700	..	Tons 1,914	95,700	..	..	
	All ranges ..	Gallnuts C. ..	..	..	Mds. 7,440	..	Mds. 7,440	..	Taken to depôt.	Mds. 2,289	..	Mds. 5,151	..	
	Do. ..	Tangedu bark ..	..	..	,, 273	..	,, 273	..	Do. ..	,, 117	..	,, 156		
	Madanapalle	Mangoes ..	..	..	No. 936	..	No. 936	..	Do. ..	No. 936	..	..	..	75 fruits, per maund = 12 Mds.
		Pumplemose ..	..	..	,, 1,200	..	,, 1,200	..	Sold	,, 1,200	..	..	..	16 fruits, per maund = 75 Mds.
		Oranges ..	..	..	,, 600	..	,, 600	..	Do.	,, 600	..	..	..	75 fruits, per maund = 8 Mds.
		Total, Minor produce ..	..	..	Mds. 7,808	..	Mds. 7,808	..	..	Mds. 2,501	..	Mds. 5,307	..	
Kurnool.	Nándyal ..	Firewood ..	..	..	..	2,50,677 or 5,013 Ts.	..	2,50,677 or 5,013 Ts.	Sold to Bellary-Kistna State Railway.	..	2,50,677 or 5,013 Ts.	..	..	
		Total, Fuel.	..	..	..	Ts. 5,013	..	Ts. 5,013	..	..	Ts. 5,013	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Kurnool —*cont.*	Nandikotkur.	Gallnuts, B ..	Mds. 500	..	Mds. 280	..	Mds. 780	..	Taken to depôt.	Mds. 500	..	Mds. 280	..	B = Beleric.
	Sirvél ..	Do. B ..	,, 300	..	,, 190	..	,, 490	..	Do. ..	,, 300	..	,, 190	..	
	Velgode ..	Do. B ..	,, 230	..	..	..	,, 230	..	Do. ..	,, 230	..	..	..	
	Nandyál ..	Do. B ..	,, 500	..	..	..	,, 500	..	Do. ..	,, 500	..	..	..	
		Total, Minor produce	Mds 1,530	..	Mds. 470	..	Mds.2,000	..	..	Mds. 1,530	..	Mds. 470	..	
Bellary.	Sandúr ..	Teak poles ..	4	12	194	595	198	607	Sold	194	595	4	12	
		Miscellaneous poles and posts.	..	..	32	32	32	32	Do.	32	32	..	..	
		Rafters ..	..	..	1,392	348	1,392	348	Do.	1,392	348	..	..	
		Total, Timber ..	4	12	1,618	975	1,622	987	..	1,618	975	4	12	
	Sandúr ..	Firewood ..	Tons 1,707	122,385	Tons 833	79,968	Ts. 2,540	202,353	Sold	2,533	2,01,933	..	..	
									Wastage ..	7	420			
		Do. Creepers.	326	21,880	,, 256	24,576	,, 582	46,456	Sold	582	46,456	..	..	
		Do. Brushwood.	..	..	,, 134	12,060	,, 134	12,060	Do.	134	12,060	..	..	
		Do. Casuarina.	..	..	,, 10	500	,, 10	500	Do.	10	500	..	..	
		Charcoal ..	..	..	Mds. 11	..	Mds. 11	..	Do.	Mds. 2	..	Mds. 9	..	
		Total, Fuel ..	2,033	144,265	1,233	117,104	3,266	261,369	..	Tons 3,266	261,369	Mds. 9	..	
	Sandúr ..	Bamboos ..	..	..	33,725	33,725	33,725	33,725	Sold	33,725	33,725	..	..	
		Total, Bamboos.	..	..	33,725	33,725	33,725	33,725	..	33,725	33,725	..	..	
	Sandúr ..	Gallnuts C ..	..	..	Mds. 177	..	Mds. 177	..	Sold	Mds. 154	..	Mds. 23	..	C = Chebulic.
		Tamarind ..	Mds. 43	..	..	..	,, 43	..	..	..	..	,, 43	..	
		Sheakoy ..	,, 6	..	..	..	,, 6	..	Sold	,, 1⅔	..	..	..	
									Wastage ..	,, 4¼				
		Kamila ..	lbs. 5	..	lbs. 20	..	lbs. 25	..	..	..	..	lbs. 25	..	
		Honey ..	Bottles 10	..	..	..	Bottles 10	..	Sold	Bottles 7	..	Bottles. 3	..	16 bottles = 1 maund estimate.
		Wax ..	lbs. 2	..	..	..	lbs. 2	..	..	..	..	lbs. 2	..	
		Tangedu bark..	..	..	Mds. 23	..	Mds. 23	..	Sold	Mds. 23	..	..	..	
		Gum ..	..	..	Seers. 16	..	Seers. 16	..	..	..	..	Seers. 16	..	½ maund estimate.
		Jack fruits ..	..	..	No. 50	..	No. 50	..	Sold	No. 50	..	..	..	½ maund each.
		Total, Minor produce.	Mds. 50	..	Mds. 226¼	..	Mds. 276¼	..	..	Mds. 208½	..	Mds. 67¾	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed, of.	Number.	Cubic feet.	Number.	Cubic feet.	
Anantapur.	Penukonda.	Teak rafters ..	..	..	150	150	150	150	..	..	..	150	150	
	Hindúpur ..	Palmyra beams.	..	..	5	10	5	10	..	..	..	5	10	
		Miscellaneous timber.	..	..	..	325	..	325	Sold	..	75	..	250	
	Gooty ..	Miscellaneous posts.	..	..	186	93	186	93	Do. ..	6	3	..	..	
									Used departmentally.	180	90			
		Total, Timber..	..	..	341	578	341	578	..	186	168	155	410	
	All ranges.	Miscellaneous firewood.	..	..	Tons 182	9,100	Tons 182	9,100	Sold	Tons 133	6,650	..	..	
									Used departmentally.	,, 49	2,450			
		Total, Fuel ..	..	..	Tons 182	9,100	Tons 182	9,100	..	Tons 182	9,100	..	..	
	All ranges.	Honey ..	..	..	Mds. 26	..	Mds. 26	..	Taken to depôt.	Mds. 22	..	Mds. 2	..	
									Sold	,, 2	..			
		Wax	..	..	,, 1½	..	,, 1½	..	Taken to depôt.	,, 1¼	..	..	..	
									Sent to Gooty exhibition.	,, ¼	..			
		Gallnuts C ..	..	..	,, 311	..	,, 311	..	Taken to depôt.	,, 150	..	,, 20	..	
									Dryage ..	,, 141				
		Kanuga seeds ..	..	..	,, 13¼	..	,, 13¼	..	Sold	,, 7½	..	,, 3¼	..	
									Taken to depôt.	,, 2½				
	Hindúpur ..	Sara seeds ..	..	..	,, 2	..	,, 2	..	Sold	,, 2	..	..	..	
		Tamarind ..	..	..	,, 30	..	,, 30	..	Do. ..	,, 30	..	..	..	
	Penukonda ..	Teak seeds ..	..	..	,, 2½	..	,, 2½	..	Taken to depôt.	,, 2½	..	..	..	
	Muchukota ..	Mango fruits ..	..	..	No. 300	Mds. 4	No. 300	No. 4	Sold	No. 300	Mds. 4	..	..	75 per maund estimate.
	Gooty ..	Babul pods ..	..	..	Mds. 1,389	..	Mds.1,389	..	Taken to depôt.	Mds. 1,389	..	..	..	
									Do. ..	,, 1	..			
		Gum	..	..	,, 17½	..	,, 17½	..	Sent to Gooty exhibition.	,, 1¼	..	15	..	
									Dryage ..	,, ¼	..			
		Total, Minor produce.	..	..	Mds. 1,796¾	..	Mds.1,796¾	..	..	Mds. 1,756½	..	Mds. 40¼	..	
Nilgiris.	Benne ..	Teak	43	1,650	..	..	43	1,650	Sold	3	98	40	1,552	
		Blackwood ..	3	230	..	..	3	230	Do.	..	..	3	230	
	Teppakádu.	Teak	1	13	137	5,404	138	5,417	Do.	93	3,650	45	1,767	
		Do. poles ..	..	..	..	2,209	..	2,209	Do.	..	150	..	2,059	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Teppakádu—*cont.*	Teak pieces ..	..	..	..	1,805	..	1,805	Sold	..	600	..	1,205	
		Venteak ..	..	..	12	396	12	396	Do. ..	12	396	..	..	
		Blackwood ..	..	..	200	760	200	760	Do. ..	18	291	182	469	
		Vengai ..	8	500	247	2,427	255	2,927	Do. ..	88	2,427	167	500	
		Mutti	35	1,183	99	46	134	1,229	Do. ..	131	1,145	3	84	
		Miscellaneous ..	..	..	3,350	990	3,350	990	Do. ..	3,350	990	..	..	
	Bandy shola.	Acacia planks ..	..	..	737	6,215	737	6,215	Used departmentally.	219	1,656	89	887	
									Coonoor depôt ..	429	3,672			
		Do. rafters ..	..	..	361	361	361	361	Do. ..	234	234	65	65	
									Used departmentally.	62	62			
	Kullár ..	Drag poles ..	..	..	1,031	1,031	1,031	1,031	Taken to depôt.	744	744	287	287	
		Total, Timber ..	90	3,576	6,174	21,644	6,264	25,220	..	5,383	16,115	881	9,105	
	Governor's shola.	Eucalyptus ..	Tons 259	12,950	Tons 1,421	71,050	Ts. 1,680	84,000	Sold	Tons 201				
									Ootacamund depôt.	,, 571	41,500	Tons 850	42,500	
									Dryage ..	,, 58				
	Cairn hill ..	Do. ..	,, 11	550	569	28,450	,, 580	29,000	Sold	,, 85				
									Taken to Ootacamund depôt.	,, 3	4,850	,, 483	24,150	
									Dryage ..	,, 9				
		Sholawood ..	,, 62	3,100	,, 186	9,300	,, 248	12,400	Sold	,, 79	..			
									Taken to Ootacamund depôt.	,, 31	6,200	,, 124	6,200	
									Dryage ..	,, 14	..			
	Aramby ..	Eucalyptus ..	..	..	,, 1,020	51,000	,, 1,020	51,000	Sold	,, 332				
									Taken to Ootacamund depôt.	,, 313	32,300	,, 374	18,700	
									Dryage ..	,, 1				
		Sholawood ..	,, 39	1,950	,, 210	10,500	,, 249	12,450	Sold	,, 164	9,250	,, 64	3,200	
									Dryage ..	,, 21				
	Woodcock ..	Do. ..	,, 68	3,400	..	..	,, 68	3,400	Ootacamund depôt.	,, 38	3,400	..	..	
									Dryage ..	,, 30				
	Pykara ..	Do. ..	,, 20	1,000	,, 7	350	,, 27	1,350	Sold	,, 27	1,350	..	..	
	Lovedale (east)	Do. ..	..	..	,, 13	650	,, 13	650	..	,, 13	650	..	..	
	Ulnad reserve.	Eucalyptus ..	..	..	,, 225	11,250	,, 225	11,250	..	,, 23	1,150	,, 202	10,100	
	Coonoor peak	Do. ..	,, 417	20,850	,, 2,318	1,15,900	,, 2,735	136,750	Coonoor depôt.	,, 130				
									Wellington ,, ..	,, 605	68,750	,, 1,360	68,000	
									Sold	,, 600				
									Charcoal kiln ..	,, 40				
		Sholawood ..	..	..	,, 26	1,300	,, 26	1,300	Sold	,, 26	1,300	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Ghát reserve.	Shola wood ..	..	..	Tons 56	2,800	Tons 56	2,800	Sold	Tons 38	2,500	Tons. 6	300	
									Wellington depôt	,, 12				
									Do. ..	,, 88				
	Bandy shola.	Do. ..	Tons 2	100	,, 204	10,200	,, 206	10,300	Sold	,, 7	9,300	,, 20	1,000	
									Charcoal kiln ..	,, 91				
									Sold	,, 1½				
									Supplied to Public Works Department.	,, ¼				
		Charcoal ..	..	..	,, 8¾	437	,, 8¾	437			187	,, 5	250	
									Ootacamund depôt.	,, 2				
	Brooklands ..	Sholawood ..	..	..	,, 41	2,050	,, 41	2,050	Coonoor ..	,, 25	2,050	..	..	
									Sold	,, 16				
	Hulical ..	Do. ..	..	..	,, 23	1,150	,, 23	1,150	..	,, 23	1,150	..	..	
	Kullár ..	Miscellaneous firewood.	,, 148	7,400	,, 190	9,500	,, 338	16,900	Sold	,, 150	7,500	,, 188	9,400	
		Total, Fuel ..	Tons 1,026	51,300	Tons 6,517¾	3,25,887	Ts. 7,543¾	3,77,187	..	Tons 3,867¾	1,93,387	Tons 3,676	1,83,800	
	Sigúr ..	Sandal wood, roots and chips.	Mds. 125	75	Mds. 2,000	1,100	Mds. 2,125	1,175	Sold	Mds. 2,000	1,100	Mds. 125	75	
		Total, Sandal-wood.	Mds. 125	75	Mds. 2,000	1,100	Mds. 2,125	1,175	Sold	Mds. 2,000	1,100	Mds. 125	75	
	Sigúr ..	Gallnuts, C ..	..	..	Mds. 1,870	..	Mds. 1,870	..	Sold	Mds. 1,870	..	..	..	
		Sheakoy ..	..	..	,, 39	..	,, 39	..	..	,, 39	..	..	..	
		Honey	Bottles 5½	..	Bottles 807	..	Btls. 812½	..	Sold	Bottles 33	..	Bottles 774	..	12 bottles = maund estimate.
									Wastage ..	,, 5½				
		Wax	..	..	Mds. 3	..	Mds. 3	..	Sold	Mds. 3	..	..	..	
		Coffee	..	..	,, 9	..	,, 9	..	..	,, 9	..	..	..	
		Total, Minor produce.	Bottles 5½	..	Mds. 1,988	..	Mds. 1,988½	..	..	Mds. 1,924	..	Mds. 64½	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
							Abstract.							
		Sál logs and sleepers.	2,385	34,766	1,422	8,161	3,807	42,927	..	1,098	9,516	2,709	33,411	
		Teak logs, poles and rafters.	48	1,675	1,303	15,280	1,351	16,955	..	1,112	10,210	239	6,745	
		Red sander roots and posts, &c.	..	..	Tons 1,914	95,600	Ts. 1,914	95,600	..	Tons 1,914	95,600	..	..	
		Sandalwood roots and chips.	Mds. 125	75	Mds. 2,000	1,100	Mds 2,125	1,175	..	Mds. 2,000	1,100	Mds. 125	75	
		Sleepers, posts, &c.	339	565	..	..	339	565	..	339	565	..	..	
		Miscellaneous wood, logs, poles, &c.	152	3,688	79,307	28,363	79,459	32,051	..	78,548	28,631	911	3,420	
		Fuel and charcoal.	3,580	230,116	21,034¾	1,107,218	24,614¾	1,337,334	..	19,345¾	1,072,952	5,269	264,382 C. ft. Mds. 9	
		Bamboos ..	..	..	33,725	33,725	33,725	33,725	..	33,725	33,725	..	..	
		Nux vomica ..	..	..	Mds. 1,096	..	Mds 1,096	..	..	Mds. 790	..	Mds. 306	..	
		Cheyroot ..	Mds. 287	..	,, 374	..	,, 661	..	..	..	..	,, 661	..	
		Suratichekka ..	,, 93	..	..	..	,, 93	..	..	Mds. 93	..	..	..	
		Soapnuts ..	..	..	Mds. 395	..	,, 395	..	..	,, 395	..	..	..	
		Orchella ..	Mds. 10	..	,, 3	..	,, 13	..	..	,, 13	..	..	..	
		Tangedu ..	,, 63	..	,, 296	..	,, 359	..	..	,, 140	..	Mds. 219	..	
		Honey ..	,, 3	..	,, 93½	..	,, 96½	..	..	,, 29½	..	,, 66	..	
		Wax	lb. 2	..	,, 5	..	,, 5	..	..	Mds. 5	..	lb. 2	..	
		Gallnuts .. B.	Mds. 1,530	..	,, 470	..	Mds 2,000	..	..	,, 1,530	..	Mds. 470	..	
		Gallnuts .. C.	..	..	,, 9,798	..	,, 9,798	..	..	,, 4,604	..	,, 5,194	..	
		Tamarind ..	Mds. 43	..	,, 231	..	,, 274	..	..	,, 231	..	,, 43	..	
		Sheakoy ..	,, 6	..	,, 39	..	,, 45	..	..	,, 45	..	..	..	
		Babul pods ..	..	..	,, 1,389	..	,, 1,389	..	..	,, 1,389	..	..	..	
		Rattans ..	Bdles. 65	..	Bdles. 145	..	Bds. 210	..	..	Bdles. 210	..	..	..	
		Gum	..	..	Mds. 18	..	Mds. 18	..	..	Mds. 2½	..	Mds. 15½	..	
		Kamila ..	lb. 5	..	lb. 20	..	lb. 25	..	..	..	..	lb. 25	..	
		Kanuga seeds ..	..	..	Mds. 13¼	..	Mds. 13¼	..	..	Mds. 10	..	Mds. 3¼	..	
		Sara do. ..	..	..	,, 2	..	,, 2	..	..	,, 2	..	..	..	
		Teak do. ..	..	..	,, 2½	..	,, 2½	..	..	,, 2½	..	..	..	
		Coffee do. ..	..	..	,, 9	..	,, 9	..	..	,, 9	..	..	..	
		Fruits ..	..	..	No. 3,086	..	No. 3,086	..	..	No. 3,086	..	..	..	

Annual Form No. 70.

Forest Department, Madras, Northern Circle.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87.

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam	..	Russell-konda.	Sál logs ..	3	7	Forests ..	628	7,389	631	7,396	Sold	3	7	260	2,752	490 Sleepers.
											Used departmentally.	133	1,041			
											Cut sleepers ..	219	3,295			
											Loss on remeasurement.	..	10			
											Gopálpur depôt ..	9	240			
											Kariguda ..	7	51			
			,, b.g. sleepers.	..	..	Conversion ..	490	..	490	..	..	..	..	490	..	
			Demarcation posts.	..	..	..	620	..	2,440	..	Used departmentally.	402	..	2,038	..	
			..	..	..	Bought ..	1,820									
			Sál rafters ..	..	..	Conversion ..	8	13	8	13	Do. ..	8	13	..	..	
			Sajo logs ..	4	35	Forests ..	129	1,606	133	1,645	Sold	4	35	86	1,010	
						Remeasurement.	..	4			Cut rafters ..	43	597			
											Loss on remeasurement.	..	3			
											Gopálpur depôt ..	4	13			
			Sajo rafters ..	..	..	Conversion ..	136	99	136	99	Used departmentally.	100	50	..	..	
											Kariguda ..	32	36			
			,, planks ..	..	..	Do. ..	38	143	42	158	Tilsingi	36	135	2	8	
						Found in excess.	4	15			Gopálpur ..	4	15			
			Dhau logs ..	..	..	Forests ..	84	1,220	84	1,221	Cut rafters ..	19	296	65	925	
						Remeasurement.	..	1								
			Dhau rafters ..	..	..	Conversion ..	45	170	45	170	Gopálpur depôt ..	4	13	..	..	
											Used departmentally.	24	78			
											Kariguda	17	79			
			,, planks ..	..	..	Do. ..	6	23	6	23	Gopálpur depôt ..	4	15	2	8	
			Ebony	..	..	Mojjagodo ..	2	12	2	12	..	..	..	2	12	
			Blackwood ..	4	48	..	2	13	6	61	Sold	4	48	2	13	
			Satinwood ..	..	..	Forests ..	8	89	8	89	Cut rafters ..	6	70	2	19	
			,, rafters.	..	..	Conversion ..	4	13	4	13	Gopálpur depôt ..	4	13	..	..	
			,, planks.	..	..	..	6	23	6	23	..	4	15	2	8	
			Piasál	1	4	Kukkuluba ..	15	166	16	170	Sold	1	4	5	44	
											Used departmentally.	10	122			

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
		Russellkonda—*cont.*	Piasál rafters ..	..	..	Conversion ..	23	..	23	..	Used departmentally.	19	..	4	..	
			,, planks ..	..	..	..	75	..	75	..	Do. ..	75	..	..	..	
			Cotton tree ..	1	26	..	..	..	1	26	Sold	1	26	..	..	
											Do.	1	3			
											Cut planks ..	81	918			
			Miscellaneous trees.	2	10	Forests ..	171	1,443	174	1,459	Used departmentally.	48	225	42	306	
						Found in depôt.	1	6			Loss on remeasurement.	2	7			
											Chandragiri ..	90	..			
											Kariguda ..	100	..			
			Miscellaneous planks.	..	..	Conversion ..	826	..	826	..	Tilsingi	286	..	31	..	Holondo.
											Bedigula	317	..			
											Used departmentally.	2	..			
			Do. ..	..	..	..	18	..	18	..	Tilsingi	18	..	..	..	Sohan.
			Slabs, sides, &c.	52	..	..	2,075	..	2,127	..	Used departmentally.	439	..	1,687	..	
											Cut posts	1				
			Total ..	67	130	..	7,234	12,448	7,301	12,578	..	2,581	7,473	4,720	5,105	
Ganjam —*cont.*	..	Suradá ..	Sál logs ..	..	..	Forests ..	7	111	7	111	Sold	2	32	5	79	
			,, b.g. sleepers	2	7	..	..	..	2	7	..	..	..	2	7	
			Blackwood logs.	2	15	..	..	..	2	15	..	..	..	2	15	
			Ebony	..	..	..	4	24	4	24	Sold	1	4	3	20	
			Sajo	26	484	Forests ..	25	437	51	921	..	4	63	47	858	
			Miscellaneous logs.	2	12	..	..	..	2	12	Cut	2	12	..	..	
			Total ..	32	518	..	36	572	68	1,090	..	9	111	59	979	
		Berhampore.	Sál logs ..	2	24	..	..	..	2	24	..	..	..	2	24	
			Total ..	2	24	..	..	..	2	24	..	..	..	2	24	
		Gopálpur	Sál logs ..	..	..	Russellkonda.	9	240	9	240		9	240	..	..	
			Sajo planks ..	..	..	..	4	15	4	15	Sent to Madras and	4	15	..	..	
			,, rafters ..	..	..	..	4	13	4	13	Bezváda for Public Works Department for experiment.	4	13	..	..	
			Dhau planks ..	..	..	..	4	15	4	15		4	15	..	..	
			,, rafters ..	..	..	..	4	13	4	13		4	13	..	..	
			Satin planks ..	..	..	..	4	15	4	15		4	15	..	..	
			,, rafters ..	..	..	..	4	13	4	13		4	13	..	..	
			Total ..	..	..	..	33	324	33	324	..	33	324	..	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Madras ..	Sál logs ..	4	71	Remeasurement.	..	58	4	129	Sold	4	129	..	..	
			Dhau logs ..	8	176	..	..	..	8	176	..	..	..	8	176	
			Sajo logs ..	8	151	..	..	..	8	151	..	..	..	8	151	
			Satinwood logs.	6	86	..	..	..	6	86	..	..	..	6	86	
			Total ..	26	484	..	..	58	26	542	..	4	129	22	413	
		Chandragiri.	Holondo planks.	..	..	Russellkonda	376	..	376	..	..	..	..	376	..	
			Sajo planks ..	..	..	..	32	..	32	..	Used departmentally.	32	..	..	..	
			Sohon planks ..	..	..	..	18	..	18	..		18	..	..	..	
			Total ..	..	..	..	426	..	426	..	..	50	..	376	..	
		Bedigula ..	Holondo planks.	..	..	Russellkonda.	317	..	317	..	..	..	..	317	..	
			Total ..	..	..	..	317	..	317	..	..	..	..	317	..	
		Kariguda	Sál logs ..	..	..	Russellkonda.	7	51	7	51	..	..	..	7	51	
			,, poles ..	..	..	..	19	47	19	47	..	..	..	19	47	
			Sajo rafters ..	..	..	..	32	36	32	36	..	..	..	32	36	
			Dhau ,, ..	..	..	..	17	79	17	79	..	..	..	17	79	
			Holondo planks.	..	..	..	100	..	100	..	..	..	..	100	..	
			Total ..	..	..	..	175	213	175	213	..	..	..	175	213	
		Russellkonda.	Fuel (chips, &c).	..	..	Conversion ..	Tons. 50	2,500	Tons. 50	2,500	Sold	Tons. 36	1,800	Tons 14	700	
			Total, Fuel ..	..	..	..	Tons. 50	2,500	Tons. 50	2,500	..	Tons. 36	1,800	Tons 14	700	
		Russellkonda.	Bamboos ..	..	..	..	1,200	..	1,200	..	Sold	1,200	..	..	..	
			Total, Bamboos.	..	..	..	1,200	..	1,200	..	..	1,200	..	..	..	
		Russelkondah.	Babuli	..	..	Forests ..	Bds15,000	..	Bds1,5000	..	Used departmentally.	12,000	..	..	..	Each bundle ½ maund estimate.
											Sold	3,000				
			Nux-vomica ..	..	..	Do. ..	Bags 39½	..	Bags 39½	..	Sold	Bags 34	..	..	..	
											Wastage	,, 5½	..	..	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Russell-konda —*cont.*	Gallnuts C. ..	..	..	Forests ..	lb. 2,700	..	lb. 2,700	..	Spoiled	lbs. 2,700	..	..	..	Terminalia chebula.
			Gills nuts ..	..	..	Do. ..	,, 3,900	..	,, 3,900	..	Gopálpur ..	,, 1,000	..	..	..	
											Sold	,, 2,560	..			
											Wastage	,, 340	..			
		Suradá ..	Chono grass ..	..	..	Do. ..	Bs. 18,000	..	Bds. 18,000	..	Used departmentally.	Bs. 18,000	..	..	..	Each ½ maund estimate.
			Babuli	..	..	Do. ..	,, 26,900	..	,, 26,900	..	Gopálpur ..	,, 26,900	..	..	..	
			Gallnuts C. ..	..	..	Do. ..	lb. 10,800	..	lb. 10,800	..	Sold	lb. 9,180	..	lb. 1,420	..	
											Spoiled	,, 200				
			Nux vomica ..	..	..	Do. ..	,, 2,352	..	,, 2,352	..	Sold	,, 1,488	..	,, 864	..	
			Terminalia belerica.	..	..	Do. ..	,, 100	..	,, 100	..	Spoiled	,, 10	..	,, 90	..	
			Gillo nuts ..	..	..	Do. ..	,, 20,160	..	,, 20,160	..	Taken to Gopálpur.	,, 1,440	..	,, 18,720	..	
			Soymida gum ..	..	..	Do. ..	,, 30	..	,, 30	..	.. ..	.. ..	..	,, 30	..	
		Gopálpur.	Babuli	..	..	Suradá ..	Bs. 26,900	..	Bds. 26,900	..	Spoiled	Bs. 26,900	..	..	..	
			Gillo nuts ..	..	..	..	lbs. 1,440	..	lbs. 1,440	..	..	.. ..	..	lbs. 1,440	..	
			Total, Minor produce.	..	..	..	Ms. 45,138	..	Mds. 45,138	..	..	Ms. 44,235	..	Mds. 903	..	
Kistna..	Bezvá-da.	Bezváda ..	Firewood ..	..	..	Forests ..	Tons 7	350	Tons 7	350	Sold	Tons 7	350	..	..	
			Total, Fuel ..	..	..	..	Tons 7	350	,, 7	350	..	,, 7	350	..	..	
Nellore.	..	Madras ..	Narudu poles ..	830	841	Sríharikót ..	..	..	830	841	Used departmentally.	81	81	120	120	
											Sold	629	640			
			Building do. ..	..	..	Do. ..	1,240	2,697	4,093	2,697	Used departmentally.	4,093	2,697	..	..	
						Excess found in stock.	2,853									
			Casuarina pole.	1	2	..	..	..	1	2	..	..	..	1	2	
			Total, Timber ..	831	843	..	4,093	2,697	4,924	3,540	..	4,803	3,418	121	122	
		..	Junglewood ..	46,844	Tons 45	Sríharikót ..	2,285,290	Tons 2,812	2,335,409	Ts. 2,882	Sold	1,302,670	Ts. 1,445	1,023,850	Tons 1,430	
						Excess found in stock.	3,275	,, 25			Lost in cyclone ..	8,889	7			
			,, bundles ..	9,663	,, 377	Sríharikót ..	31,073	,, 1,243	40,736	,, 1,620	Sold	31,828	,,1,240	Bds. 8,907	Tons. 380	
											Lost in cyclone ..	Bde. 1				
			Casuarina ..	..	,, 227	Plantations ..	..	,, 1,048	..	,, 1,288	Sold	..	,, 1,245	..	..	
						Found in excess.	..	,, 13			Lost in cyclone ..	..	,, 43			
			Total, Fuel ..	56,507	Tons 649	..	2,319,638	Tons 5,141	2,376,145	Ts. 5,790	..	1,343,388	3,980	1,023,757	1,810	

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Nellore —*cont.*	..	Madras—*cont.*	Nux vomica ..	..	..	Sriharikót ..	Mds. 790	..	Mds. 790	..	Shipped to London.	Mds. 790	..	..	..	
			Cheyroot ..	Mds. 220	..	..	..	..	220	..	Sold	219	..	..	..	
			Suratichekka ..	..	..	..	86	..	86	..	Wastage	1	..	..	..	
			Soapnuts ..	..	..	..	395	..	420	..	Do.	4	..	Mds. 82	..	
						Excess found in stock.	25				Sold	420	..	..	..	
			Rattans ..	Bds. 21	..	..	Bds. 210	..	Bds. 231	..	Do.	Bds. 210	..	Bds. 21	..	1 bundle= ½ maund estimate.
			Total ..	Mds. 230½	..	..	Mds.1,401	..	Mds.1,631½	..	..	Mds.1539	..	Mds. 92½	..	
Cuddapah.	..	Kodur ..	Red sander roots.	..	..	Forest ..	Tons 960	94,862	Ts. 960	9.5012	Sold	Tons 960	..	..	..	
		Orampad ..	Do. do. ..	Tons 3	150	..	797		800		..	,, 800	..	..	..	
		Peddapad ..	Do. do. ..	..	..	..	140¼		140¼		..	,, 140	..	Ton ¼	..	
		Rájampet ..	Do. posts ..	..	..	..	726	726	726	726	..	,, 690	..	..	..	
											Used departmentally.	,, 36				
		..	Miscellaneous ..	..	..	..	2	2	2	2	..	2	2	..	..	
			Total, Timber ..	3	150	..	Tons1,912¼	94,877	1,915¼	95,027	..	Tons1,915	95,015	¼	12	
		Cuddapah ..	Gallnuts C. ..	..	..	Forest ..	Mds.2,289	..	Mds.2,289	..	Sold	Mds. 37	..	Mds.2,252	..	75 fruits= 1 maund, estimate.
		Madanapalli.	Mangoes ..	..	..	Horsleykonda.	936	..	936	..	..	936	..	..	..	
		Kodur ..	Honey	Md. 1	..	..	..	..	Md. 1	..	Destroyed being worthless.	Mds. 2	..	..	..	
			Wax	,, 1	..	..	..	..	,, 1	..						
		Váyalpád.	Tangedu ..	..	..	Forest ..	117	..	Mds. 117	..	Sold	85	..	,, 112	..	
			..	..	..	Excess found in stock.	80	..	80	..						
			Total, Minor produce.	2	..	..	Mds.2,498	..	Mds.2,500	..	..	Mds. 136	..	Mds.2,364	..	
Kurnool.	..	Nandikótkur.	Gallnuts B. ..	..	..	Forests ..	Mds. 500	..	Mds. 500	..	..	..	..	Mds. 500	..	
		Sirvél ..	Do. B. ..	..	..	..	300	..	300	..	..	..	..	300	..	
		Velgode ..	Do. B. ..	..	..	..	230	..	230	..	..	..	..	230	..	
		Nandyál ..	Do. B. ..	..	..	..	500	..	500	..	..	..	..	500	..	
			Total, Minor produce.	..	..	..	Mds.1,530	..	Mds.1,530	..	..	..	..	Mds.1,530	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Bellary.	..	Bellary ..	Kamila ..	lb. ¾	..	..	..	..	lb. ¾	..	Forest musium ..	lb. ¾	..	..	..	
			Gallnuts B. ..	Mds. 77	..	..	..	..	Mds. 77	...	Sold	67½	..	..	..	
											Wastage ..	9½	..	..	...	
			Total, Minor produce.	Mds. 77	..	..	..	..	Mds. 77	..	..	77	..	..	..	
Anantapur.	..	Bukka patnam.	Teakwood spokes and felloes.	108	15	..	..	..	108	15	Sold	108	15	...	..	
			Total, Timber ..	108	15	..	..	..	108	15	..	108	15	..	..	
		Bukkapatnam.	Honey ..	Mds. 57½	..	Forest ..	Mds. 22	..	Mds. 79½	...	Sold	Mds. 27¾	..	Mds. 42¾	..	
											Wastage	,, 6½	..			
											Gooty exhibition.	,, ¼	..			
											Taken to Anantapur.	,, 2¼	..			
			Wax	,, ½	..	..	,, 1¼	..	,, 1¾	..	Sold	,, 1	..	,, ½	..	
											Dryage	,, ¼	..			
			Gallnuts, C. ..	,, 1	..	..	,, 150	..	,, 151	..	Sold	,, 150½	..	..	..	
											Gooty exhibition.	,, ¼	..	..	..	
											Dryage	,, ¼	..	..	..	
			,, B. ..	,, 235	..	..	..	..	,, 235	..	Gooty exhibition.	,, ¼	..	Mds. 233	..	
											Sown	,, 1¾	..			
			Tamarind ..	,, 5	..	..	..	..	,, 5	..	Sold	,, 5	..	..	..	
			Kanuga seeds ..	,, 17	..	..	,, 2½	..	,, 19½	..	Do.	,, 19½	..	..	..	
			Teak ,, ..	..	..	..	,, 2½	..	,, 2½	..	..	..	..	,, 2½	..	
		Gooty ..	Babul pods ..	Mds. 269	..	..	,, 1,389	..	,, 1,658	..	..	..	..	,, 1,658	..	
			,, bark ..	Md. 1	..	..	..	..	Md. 1	..	..	..	..	Md. 1	..	
			Gum	..	..	..	Md. 1	..	,, 1	..	Gooty exhibition.	Md. ½	..	,, ¾	..	
		Anantapur.	Honey ..	..	..	..	Mds. 2¼	..	Mds. 2¼	..	Sold	Mds. 2¼	..	..	..	
			Total, Minor produce	586	..	..	Mds. 1,570½	..	Mds. 2,156½	..	..	Mds. 218	..	Mds. 1,938½	..	
Nilgiris.	..	Coonoor ..	Acacia planks ..	..	..	Bandy shola ..	429	3,672	429	3,672	Sold	3	27	251	3,295	
											Used departmentally.	175	350			
			,, rafters ..	..	..	..	234	..	234	..	Do.	35	..	196	..	
											Sold	3	..			
			Blue gum drag poles.	8	4	Kullar ..	..	..	8	4	,, ...	..	..	8	4	
			Mis. ,,	252	..	..	744	..	996	..	,, ...	744	..	252	..	
			Total, Timber ..	260	4	..	1,407	..	1,667	..	..	960	..	707	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Nilgiris.—*cont.*		Ootacamund.	Firewood (blue gum and shola wood.	Tons 359	..	Aramby, Baikie, Cairn hill and Governor's shola, &c.	Tons 956	..	Tons 1,315	..	Sold	Tons 465	..	Tons 387	..	
											Dryage	463	..			
			Charcoal ..	..	..	Bandy shola..	2	..	2	..	Sold	lbs. 2,100	..	Ton 1	..	
											Sample	,, 50 or ton 1	..			
		Coonoor..	Firewood (blue gum and shola wood.	81	..	Coonoor peak and Brooklands.	Tons 155	..	236	..	Sold	103	..	Tons 103	..	
											Wellington depôt.	18	..			
											Dryage	12	..			
		Wellington.	Do. ..	2	..	Coonoor peak and ghât reserve.	705	..	725	..	Sold	670	..	,, 8	..	
											Used departmentally.	3	..			
						Bandy shola.	18				Dryage	44	..			
			Total, fuel ..	Tons 442	22,100	..	Tons 1,836	91,800	Tons 2,278	113,900	..	Tons 1,779	88,950	Tons 499	24,950	
		Kullár ..	Tamarind ..	Mds. 1	..	..	..	..	Mds. 1	..	Wastage.	Mds. 1	..	..	..	
			Total, Minor produce.	1	..	..	..	..	1	..	..	1	..	..	..	
						Abstract.										
			Sál logs, &c. ..	11	109	..	678	7,909	689	8,018	..	394	5,058	295	2,960	
			Teak poles, &c .	108	15	..	..	..	108	15	..	108	15	..	..	
			Ebony	..	..	..	6	36	6	36	..	1	4	5	32	
			Blackwood ..	6	63	..	2	13	8	76	..	4	48	4	28	
			Redsanders, roots and posts.	3	150	..	1,912¼	94,877	1,915¼	95,027	..	1,915	95,015	¼	12	
			Sleepers, pieces and slabs, &c.	52	..	..	2,565	..	2,617	..	..	440	..	2,177	..	
			Miscellaneous wood (logs and poles).	318	988	..	6,377	9,329	6,695	10,317	..	2,798	3,294	3,897	7,023	
			Fuel	56,949	22,749	..	2,321,531	99,791	2,378,480	122,540	..	1,345,210	95,080	1,033,270	27,460	
			Bamboos ..	..	..	..	1,200	..	1,200	..	..	1,200	..	..	..	
			Nux-vomica ..	..	..	..	963	Mds.	963	Mds.	..	Mds. 928	..	Mds. 35	..	
			Cheyroot ..	Mds. 220	..	..	..	..	Mds. 220	..	..	,, 220	..	..	..	
			Soapnuts ..	..	..	..	Mds. 420	..	,, 420	..	..	,, 420	..	..	..	
			Tangedu ..	..	..	..	,, 197	..	,, 197	..	..	,, 85	..	Mds. 112	..	
			Honey ..	Mds. 58½	..	..	,, 24¾	..	,, 82¾	..	..	,, 40	..	,, 42¾	..	
			Wax	,, 1½	..	..	,, 1¼	..	,, 2¼	..	..	,, 2¼	..	,, ¾	..	
			Gallnuts B ..	,, 312	..	..	,, 1,534	..	,, 1,846	..	..	,, 79½	..	,, 1,766½	..	
			Gallnuts C ..	,, 1	..	..	,, 2,979	..	,, 2,980	..	..	,, 671	..	,, 2,309	..	
			Gillo-nuts ..	..	..	..	,, 1,020	..	,, 1,020	..	..	,, 213	..	,, 806	..	
			Suratichekka ..	..	..	..	,, 86	..	,, 86	..	..	,, 4	..	,, 82	..	
			Tamarind ..	Mds. 6	..	..	..	..	,, 6	..	..	,, 6	..	..	..	
			Babul Pods ..	,, 269	..	..	Mds 1,389	..	,, 1,658	..	..	..	..	,, 1,658	..	
			Babul Bark ..	,, 1	..	..	..	..	,, 1	..	..	..	..	,, 1	..	
			Kanuga seeds ..	,, 17	..	..	Mds. 2½	..	,, 19½	..	..	Mds. 19½	..	..	..	
			Teak	..	..	..	,, 2½	..	,, 2½	..	..	..	..	Mds. 2½	..	
			Soymida gum ..	..	..	..	,, 2	..	,, 2	..	..	,, ¼	..	,, 1	..	
			Rattans ..	Bdls. 21	..	..	Bdls. 210	..	Bdls. 231	..	..	Bdls. 210	..	Bdls. 21	..	Each bundle ¼ a maund estimate.
			Mangoes ..	..	..	..	936	..	936	..	..	936	..	..	..	Do.
			Kamilla dye ..	lb. ¾	..	..	..	..	lb. ¾	..	..	lb. ¾	..	..	..	
			Babuli and chono grass.	..	..	..	Bds. 86,800	..	Bds. 86,800	..	..	Bds. 86,800	..	..	..	

Annual Form No. 71.

Forest Department, Madras, Northern Circle.

Sales of timber and other produce cut and collected by Government Agency during the year 1886-87.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold from Depot.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Ganjam ..		Russellkondah.	I (*a*)	Sál logs	3	7	0 1 5	3 1 6	3 1 6	3	..	
				Piasál ,, ...	1	4	0 8 0	2 0 0	2 0 0	1	..	
				Sajo ,, ...	4	35	0 4 1	9 1 0	9 1 0	4	..	
				Blackwood logs ..	4	48	0 6 0	18 0 0	18 0 0	4	..	
				Cotton tree	1	26	0 1 6	2 7 0	2 7 0	1	..	
				Miscellaneous logs ..	1	3	0 1 6	0 4 6	0 4 6	1	..	
				Sál logs	2	32	1 0 2	32 7 2	32 7 2	2	..	
	..	Suradá ..	Do.	Ebony logs	1	4	1 0 0	4 4 9	4 4 9	1	..	
				Sajo logs	4	63	0 6 0	23 10 0	23 10 0	4	..	
	..	Madras ..	Do.	Sál logs	4	129	0 12 0	97 2 0	97 2 0	4	..	
				Total, Timber ..	25	351	..	192 5 11	192 5 11	25	..	
	..	Russellkondah..	I (*b*)	Firewood (chips, &c.)	Tons 50	250	Auction.	21 7 0	21 7 0	Tons 50	..	
				Total, fuel ..	Tons 50	250	..	21 7 0	21 7 0	Tons 50	..	
	..	Do. ..	I (*c*)	Bamboos (old) ..	1,200	..	Auction.	0 4 0	0 4 0	1,200	..	
				Total, Bamboos ..	1,200	..	..	0 4 0	0 4 0	1,200	..	
	..	Do. ..	I (*c*)	Babuli grass	Bdls. 3,000	..	Auction.	1 0 0	1 0 0	Bdls. 3,000	..	
				Nux-vomica	Bags 34	..	1 8 0 a bag.	51 0 0	51 0 0	Bags. 34	..	1 Bag = 2 Mds. estimate.
				Gillo-nuts	lbs. 2,560	..	..	2 0 0	2 0 0	lbs. 2,560	..	
	..	Suradá	Do.	Gallnuts	,, 9,180	..	..	56 0 0	56 0 0	,, 9,180	..	
				Nux-vomica	,, 1,488	..	..	12 12 0	12 2 0	,, 1,488	..	
				Total, Minor produce.	Mds. 2,097	..	..	122 12 0	122 2 0	..	..	
				Total, Ganjam ..	..	..	..	336 12 11	336 2 11	..	..	
Kistna ..	..	Bezváda ..	I (*b*)	Fuel	Tons 7	350	Auction.	26 8 0	26 8 0	Tons 7	..	
				Total, Kistna ..	Tons. 7	350	..	26 8 0	26 8 0	Tons 7	..	

Sales of timber and other produce cut and collected by Government Agency during the year 1886-78—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							Rs. A. P.	Rs. A. P.	Rs. A. P.			
Nellore ..		Madras ..	I (*a*)	Narudu Poles ..	629	640	..	135 8 6	135 8 6	629	..	
				Total, Timber ..	629	640	..	135 8 6	135 8 6	629	..	
			I (*b*)	Firewood	1,302,670	Tons. 1,445	..	13,879 11 3	13,879 11 3	1,302,670	..	
				,, bundles ..	31,828	,, 1,220	..	8,135 7 9	8,135 7 9	Bnds. 31,828	..	
				,, casuarina ..	1,245	,, 1,245	..	9,734 4 1	9,734 4 1	Tons 1,245	..	
				Total, Fuel ..	..	Tons 3,910 or 1,95,500	..	31,749 7 1	31,749 7 1	..	..	
			I (*c*)	Nux-vomica ..	Mds. 790	..	..	567 8 5	567 8 5	..	..	Balance of previous year paid in 1886-87. * Deposit.
				Chayroot	219	..	Rs. 82 per candy.	65 9 10	65 9 10	..	..	
				Suratichekka ..	..	..	..	..	*40 0 0	..	..	
				Soapnuts	Mds. 420	..	..	189 0 0	189 0 0	Mds. 189	..	
				Rattans	Bundles 210	..	..	1,185 8 0	1,185 8 0	Bndls. 210	..	
				Total, Minor produce.	Mds. 1,534	..	..	2,007 10 3	2,047 10 3	..	..	
				Total, Nellore ..	..	..	..	33,892 9 10	33,932 9 10	..	..	
Cuddapah ..	..	Kodúr	I (*a*)	Red sanders roots, &c.	Tons 960	95,000	18 4 0 per ton. / 17 4 0 ,,	17,420 0 0	17,420 0 0	Tons 860	100	
		Orampád ..	Do.	Do. do. ..	800		18 4 0 ,,	14,600 0 0	14,600 0 0	,, 220	580	
		Peddapad ..	Do.	Do. do. ..	140		18 4 0 ,,	2,555 0 0	2,555 0 0	,, 140	..	
		Rájampet ..	Do.	Do. posts No...	690	690	Auction.	218 6 0	218 6 0	,, 692	..	
				Miscellaneous ..	2	2						
				Total, Timber ..	..	95,692	..	34,793 6 0	34,793 6 0	..	..	
		Cuddapah ..	I (*e*)	Gallnuts	Mds. 37	..	2 1 0 / 1 0 0 a maund.	74 3 3	74 3 3	Mds. 37	..	
		Madanapalle ..	Do.	Mangoes	No. 936	..	Auction.	12 3 0	12 3 0	No. 936	..	
				Tangedu bark ..	Mds. 85	..	Do.	81 0 0	81 0 0	Mds. 85	..	
				Total, Minor produce.	Mds. 134	..	..	167 6 3	167 6 3	..	..	
				Total, Cuddapah ..	..	..	..	34,960 12 3	34,960 12 3	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
								Rs. A. P.	Rs. A. P.			
Bellary	..	Bellary	I (*e*)	Gallnuts	Maunds 67½	..	Rs. 0-2-0 per Md. ..	8 7 0	8 7 0	Maunds 67½	..	
				Total, Minor produce.	Maunds 67½	..	..	8 7 0	8 7 0	Maunds 67½	..	
				Total, Bellary ..	..	..	..	8 7 0	8 7 0	..	..	
Anantapur	..	Bukkapatnam ..	I (*a*)	Teakwood spokes and felloes.	108	15	Auction.	4 8 0	4 8 0	108	15	
				Total, Timber ..	108	15	..	4 8 0	4 8 0	108	15	
	..	Do.	I (*e*)	Honey	Maunds 27¾	..	Rs. 2 0 0 } Mds. ,, 2 4 0 }	59 13 4	59 13 4	Maunds 27¾	..	
				Wax	Maund 1	..	..	9 1 0	9 1 0	Maund 1	..	
				Gallnuts C.	Maunds 150½	..	..	71 9 5	71 9 5	Mds. 150½	..	
				Tamarind	,, 5	..	Rs. 0 8 0 a Md.	2 8 0	2 8 0	,, 5	..	
				Kanuga seeds ..	,, 19½	..	Auction.	0 10 0	0 10 0	,, 19½	..	
	..	Anantapur ..		Honey	,, 2¼	..	..	10 12 0	10 12 0	,, 2¼	..	
				Total, Minor produce.	Maunds 206	..	..	154 5 9	154 5 9	206	..	
				Total, Anantapur ..	..	..	..	158 13 9	158 13 9	..	..	
Nílgiri ..	Coonoor	..	I (*a*)	Acacia planks ..	3	24	..	15 13 0	15 13 0	Planks 3	..	
				,, rafters ..	3	20	..	2 12 6	2 12 6	3	..	
	..	Kullar		Bluegum drag poles ..	744	744	Rs. 0 3 0 each.	139 8 0	139 8 0	Poles 744	..	
	..	Coonoor ..		,, ,, ..	1,227	1,227	,, 0 2 0 ,,	153 6 0	153 6 0	,, 1,227	..	
	..	Kótagiri ..		,, ,, ..	78	78	,, 0 2 0 ,,	9 12 0	9 12 0	,, 78	..	
				,, ,, ..	3	3	,, 0 3 0 ,,	0 9 0	0 9 0	,, 3	..	
				Total, Timber ..	2,058	2,096	..	321 12 6	321 12 6	2,058	..	
	..	Ootacamund ..	I (*b*)	Firewood	Tons 465	..	Rs. 3-4-0 per 1,000 lb.	3,194 13 4	2,996 13 11	Tons 465	..	
				Charcoal	Lb. 2,100	..	,, 0-15-0 ,, 50 ,,	40 8 0	40 8 0	Lb. 2,100	..	
	..	Coonoor ..		Firewood	Tons 78	..	,, 2-12-0 ,, 1,000 ,,	480 15 0	480 15 0	Tons 78	..	
				Bluegum bark ..	Lots 12	..	Auction.	4 14 0	4 14 0	Lots 12	..	
				Charcoal	Lb. 250	..	Rs. 1-0-0 a lb.	5 0 0	..	..	..	
	..	Wellington ..		Firewood	Tons 643	..	,, 3-11-0 } per 1,000 ,, 2-12-0 } lb.	5,124 10 3	4,838 10 10	Tons 546	..	
				Barks and chips ..	Lots 36	..	Auction.	26 5 0	26 5 0	Lots 36	..	
				Total, Fuel and Charcoal.	Tons 1,239	61,950	..	8,877 1 7	8,388 2 9	..	..	
				Total, Nílgiris ..	..	..	..	9,198 14 1	8,709 15 3	..	..	
				Total sold from depôt.	..	..	..	78,582 13 10	78,133 5 0	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.				Rs. A. P.	Rs. A. P.			
Ganjam	..	Mojjagodo ..	I (*a*)	Sál log and poles ..	156	1,760	..	487 13 0	487 13 0	Logs 156	..	
				Sajo	1	24	Rs. 0 2 6	3 12 0	3 12 0	,, 1	..	
				Dhau	1	34	,, 0 2 6	5 5 0	5 5 0	,, 1	..	
	..	Kukúluba ..	..	Sál logs	33	525	..	97 5 9	97 5 9	,, 33	..	
				,, poles	272	1,360	Rs. 0 2 0	170 0 0	170 0 0	Poles 272	..	
				Sajo	2	24	,, 0 2 6	3 12 0	3 12 0	Logs 2	..	
				Dhau	10	157	,, 0 2 6	24 8 6	24 8 6	,, 10	..	
				Total, Timber ..	475	3,884	..	792 8 3	792 8 3	..	..	
				Total, Ganjam ..	..	..	..	792 8 3	792 8 3	..	..	
Vizagapatam	..	Golgonda ..	I (*a*)	Miscellaneous ..	..	30	Auction.	14 1 9	14 1 9	C. ft. 30	..	
				Total, Timber ..	..	30	..	14 1 9	14 1 9	..	..	
				Total, Vizagapatam ..	..	..	..	14 1 9	14 1 9	..		
Godávari ..	..	Godávari river.	I (*a*)	Teak	822	5,117	Auction.	3,107 10 9	3,107 10 9	822	..	Drift timber.
				Miscellaneous ..	703	6,005				703		
				Total, Timber ..	1,522	11,122	..	3,107 10 9	3,107 10 9	1,525	..	
				Total, Godávari ..	..	..	..	3,107 10 9	3,107 10 9	..	..	
Kistna ..	..	Bezváda ..	I (*a*)	Tumma poles ..	17	34	Auction.	18 11 6	18 11 6	Poles 17	..	
				Total, Timber ..	17	34	..	18 11 6	18 11 6	..	..	
			I (*b*)	Firewood	Tons 3	..	Auction.	9 0 0	9 0 0	Tons 3	..	
				Total, Fuel ..	..	..	..	9 0 0	9 0 0	..	..	
				Total, Kistna ..	..	..	..	27 11 6	27 11 6	..	..	
Nellore ..	..	Srîharikót ..	I (*a*)	Stakes and pegs ..	46,000	920	Rs. 0 8 0 per 100	230 0 0	..	..	..	
		Udayagiri ..	..	Sleepers and posts ..	339	565	Auction.	23 0 3	23 0 3	339	..	
		Plantations ..	..	Casuarina poles ..	644	737	Rs. 8 8 0	208 13 0	208 13 0	644	..	
			..	Palmyra rafters, &c.	69	72	Auction.	22 5 6	22 5 6	69	..	
				Total, Timber ..	47,052	2,294	..	484 2 9	254 2 9	..	..	

Sale of timber and other produce cut and collected Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								RS. A. P.	RS. A. P.			
Nellore—*cont.*	..	Plantations ..	I (*b*)	Casuarina ..	Tons 1,356 ,, 161	..	Various.	9,113 12 7	6,767 11 9	..	..	
				Total Fuel ..	Tons 1,517	..	..	9,113 12 7	6,767 11 9	..	..	
	..	Sríharikót ..	I (*c*)	Orchella	Maunds 13	..	Rs. 25 4 0 per candy.	16 6 7	16 6 7	..	..	
				Honey	,, 2½	..	,, 0 4 3 ,, viss.	5 5 6	5 5 6	..	..	
				Wax	,, ½	..	,, 85 0 0 ,, candy.	2 10 6	2 10 6	..	..	
				Tamarind	,, 201	..	,, 16 4 0 ,, ,,	163 14 9	163 14 9	..	..	
				Palmyra leaves, &c...	,, 300	..	Auction.	0 9 1	0 9 1	..	..	
				Casuarina plants ..	,, 4,100	..	Rs. 3 0 0 per 1,000.	13 2 0	13 2 0	..	..	
				Total, Minor produce.	Maunds 217	..	..	202 0 5	202 0 5	..	..	
				Total, Nellore ..	..	..	..	9,799 15 9	7,223 14 11	..	..	
Cuddapah.	..	Cuddapah ..	I (*a*)	Palmyra trees ..	49	98	..	84 9 0	84 9 0	49	98	
				Total, Timber ..	49	98	..	84 9 0	84 9 0	..	..	
	..	Madánapalle ..	I (*c*)	Pumplemose ..	1,200	..	Rs. 0 10 0 per 100.	7 8 0	7 8 0	1,200	..	
				Oranges	600	..	,, 0 8 0 ,,	3 0 0	3 0 0	600	..	
				Total, Minor produce.	1,800	..	..	10 8 0	10 8 0	1,800	..	
				Total, Cuddapah ..	..	..	..	95 1 0	95 1 0	..	..	
Kurnool ..	..	Nandyál ..	I (*b*)	Firewood	..	250,677	..	19,296 8 5	19,296 8 5	C. ft. 250,677	..	
				Total, Fuel ..	..	250,677	..	19,296 8 5	19,296 8 5	C. ft. 250,677	..	
				Total, Kurnool ..	..	..	..	19,296 8 5	19,296 8 5	..	..	
Bellary ..	..	Sandúr ..	I (*a*)	Teak poles	194	595	Rs. 1 2 0 ,, 1 8 0	223 2 0	223 2 0	194	..	
				Miscellaneous poles ..	32	32	,, 1 0 0 each.	32 0 0	32 0 0	32	..	
				Rafters	1,392	348	,, 0 1 3 ,,	110 1 10	110 1 10	1,392	..	
				Total, Timber ..	1,618	975	..	365 3 10	365 3 10	1,618	..	

Sales of timber and other produce cut and collected Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								Rs. A. P.	Rs. A. P.			
Bellary—*cont.*	..	Sandúr ..	I (*b*)	Firewood	Tons 1,657	..	..	4,034 15 0	4,034 15 0	Tons 1,657	..	
				Do. creepers ..	,, 270	..	..	595 12 5	595 12 5	,, 270	..	
				Brushwood	,, 134	..	..	121 4 0	121 4 0	,, 134	..	
	..	Adóni ..	..	Casuarina	,, 43 or 10	..	Auction.	30 0 0	30 0 0	,, 43 or 10	..	
	..	Sandúr ..	..	Charcoal	Maunds 2	..	Rs. 0 6 0 a md.	0 12 0	0 12 0	Mds. 2	..	
				Total, Fuel, &c. ..	Tons 2,071	..	..	4,782 11 5	4,782 11 5	Tons 2,071	..	
	..	Do. ..	I (*c*)	Bamboos	33,725	..	..	931 13 0	931 13 0	33,725	..	
				Total, Bamboos ..	33,725	..	..	931 13 0	931 13 0	33,725	..	
	..	Do. ..	I (*e*)	Gallnuts C.	Mds. 154	..	Rs. 0 6 0 a md.	57 12 0	57 12 0	Mds. 154	..	
				Sheakoy	,, 1¾	..	,, 1 4 0 ,,	2 3 0	2 3 0	,, 1¾	..	
				Honey	Bottles 7	..	,, 0 8 0 a bottle.	3 8 0	3 8 0	Bottles 7	..	½ maund estimate.
				Tangedu bark ..	Maunds 23	..	Auction.	10 0 0	10 0 0	Mds. 23	..	
				Jack fruits	,, 50	12	Rs. 16 0 0 per 100.	8 0 0	8 0 0	50	..	
				Total, Minor produce.	Mds. 191¼	..	..	81 7 0	81 7 0	Mds. 191¼	..	
				Total, Bellary ..	..	..	..	6,161 3 3	6,161 3 3	..	..	
Anantapur	..	Hindupúr ..	I (*a*)	Miscellaneous timber.	Tons 1½	..	..	4 8 0	4 8 0	Tons 1½	..	
				Do. do. posts	6	..	Auction.	3 6 6	3 6 6	6	..	
				Total, Timber ..	..	81	..	7 14 6	7 14 6	..	..	
	..	All Ranges ..	I (*b*)	Firewood	Tons 133	..	Rs. 0 4 2 a ton.	35 1 6	35 1 6	Tons 133	..	
				Total, Fuel ..	Tons 133	..	..	35 1 6	35 1 6	Tons 133	..	
	..	All Ranges ..	I (*e*)	Honey	Maunds 2	..	..	2 0 0	2 0 0	Mds. 2	..	
				Gallnuts	,, 140	..	..	77 3 0	77 3 0	,, 140	..	
				Kanuga seeds ..	,, 7½	..	..	2 0 0	2 0 0	,, 7½	..	
	..	Hindupúr ..	..	Sara do. ..	,, 2	..	..	7 13 0	7 13 0	,, 2	..	
	..	Muchukota ..	..	Tamarind	,, 30	..	Rs. 0 4 3 a md.	8 0 0	8 0 0	,, 30	..	
				Mango fruits ..	Fruits 300	..	Auction.	0 6 3	0 6 3	Fruits 300	..	75 per maund estimate.
				Total, Minor produce.	Maunds 256½	..	..	97 6 3	97 6 3	Mds. 256½	..	
				Total, Anantapur ..	..	..	..	140 6 3	140 6 3	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locally.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							Rs. A. P.	Rs. A. P.	Rs. A. P.			
Nílgiris ..	..	Benne ..	I (*a*)	Teak	3	98	0 12 0	73 8 0	73 8 0	C. feet. 98	..	
	..	Teppacadu ..		Do.	93	3,650	0 14 0 0 12 0	1,904 10 0 281 4 0	1,823 0 0 281 4 0	,, 3,650	..	
				Do. poles	..	150	0 8 0 0 4 0	50 0 0	50 0 0	,, 150	..	
				Do. pieces	..	600	0 6 0	100 0 0	100 0 0	,, 600	..	
				Venteak	12	396	0 8 0	198 0 0	198 0 0	,, 396	..	
				Blackwood	18	291	0 7 0	141 0 0	141 0 0	,, 291	..	
				Vengai	88	2,427	0 4 6	728 3 0	728 3 0	,, 2,427	..	
				Mutti	131	1,145	0 3 0 0 1 6	176 10 0	176 10 0	,, 1,145	..	
				Miscellaneous pieces.	3,350	990	Auction.	250 0 0	250 0 0	,, 990	..	
				Total, Timber ..	3,695	9,747	..	3,903 3 0	3,821 9 0	,, 9,747	..	
	..	Ootacamund ..	I (*b*)	Firewood (blue gum.)	Tons. 641	..	2 12 3	1,963 4 9	1,771 12 0	Tons. 641	..	
	..	Coonoor ..	Do. ..	,, (sholawood.)	,, 283	..	3 8 10	1,006 10 0	1,006 10 0	,, 283	..	
				,, (blue gum.)	,, 600	..	2 6 11	1,460 8 0	1,286 8 0	,, 600	..	
				,, (sholawood.)	,, 120	..	2 14 0	343 2 0	343 2 0	,, 120	..	
				,, (miscellaneous.	,, 150	..	0 7 0	67 7 0	67 7 0	,, 150	..	
				Charcoal	,, 2¾	..	30 12 0	84 8 0	52 12 0	,, 2¾	..	
				Total, Fuel and charcoal	Tons. 1,796¾	..	..	4,925 7 9	4,528 3 0	Tons. 1,796¾	..	
	..	Sigúr	I (*d*)	Sandalwood roots ..	Mds. 2,000	..	4 8 0 a maund.	9,000 0 0	9,000 0 0	Mds. 2,000	..	
				Total, Sandalwood ..	Mds. 2,000	..	..	9,000 0 0	9,000 0 0	Mds. 2,000	..	
	..	Sigúr	I (*e*)	Gallnuts C.	Mds. 1,870	..	0 8 0 a maund. 0 8 0	935 0 0	935 0 0	Mds. 1,870	..	
	..	All ranges ..	..	Sheakoy	,, 39	..	0 12 0 ,,	21 12 0	21 12 0	,, 39	..	
				Honey	Bottles 33	..	0 6 0 a bottle.	12 6 0	12 6 0	Bottles 33	..	
				Wax	Mds. 3	..	6 8 0 a maund.	19 8 0	19 8 0	Mds. 3	..	2 Mds. estimate.
				Coffee	,, 9	..	Auction.	31 4 0	31 4 0	,, 9	..	
				Total, Minor produce.	Mds. 1,923	..	..	1,019 14 0	1,019 14 0	Mds. 1,923	..	
				Total, Nílgiris ..	..	..	..	18,848 8 9	18,369 10 0	..	..	
				Total sold locally ..	..	..	..	55,176 0 11	52,121 1 4	..	..	
				Total Drift ..	..	..	..	3,107 10 9	3,107 10 9	..	..	
				Grand Total ..	..	..	..	1,36,866 9 6	1,33,362 1 1	..	..	

ANNUAL FORM No. 72.

Forest Department, Madras, Northern Circle.

Timber and other produce cut, collected and removed from the forests by consumers or purchasers, including pasture, during the year 1886-87.

District.	Produce removed. Description	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Ganjam	Timber .. .. .. Cart-loads.	85	280	280	
	Do. .. .. .. Trees.	..	104	104	
	Total, Timber ..	85	384	384	II (*a*).
	Firewood .. .. Cart-loads.	47,460	12,073	12,073	
	Charcoal .. .. .. ,,	154	270	270	
	Total, Firewood and Charcoal. ,,	47,614	12,343	12,343	II (*b*) Rs. 12,344 in form 64.
	Bamboos .. .. .. Cart-loads.	7,889	3,231	3,231	
	Total, Bamboos .. Cart-loads.	7,889	3,231	3,231	II (*c*).
	Lease of grass, &c.	..	5	5	
	Total Grazing ..	..	5	5	II (*d*).
	Lease of fruits in different topes ..	..	655	655	
	Total, Minor produce ..	,,	655	655	II (*e*).
	Grand Total .. Cart-loads.	55,588	16,618	16,618	Rs. 16,619 in form 64.
Vizagapatam	Timber .. .. .. Cart-loads.	407	921	921	
	Total, Timber .. Cart-loads.	407	921	921	II (*a*) Rs. 461 in form 64.
	Firewood.. .. .. Cart-loads.	5,114	1,941	1,941	
	Charcoal .. .. .. ,,	281	457	457	
	Total, Firewood and Charcoal. ,,	5,395	2,398	2,398	II (*b*).
	Bamboos .. .. .. Cart-loads.	2,970	986	986	
	Total, Bamboos .. Cart-loads.	2,970	986	986	II (*c*).
	Other minor produce	..	113	113	
	Total, Minor produce ..	..	113	113	II (*e*).
	Grand Total .. Cart-loads.	8,772	4,418	4,418	Rs. 3,958 in form 64.
Godavari	Timber .. .. .. Cart-loads.	2,600	4,767	4,767	
	Do. .. .. .. Pieces.	86,025	17,945	17,945	
	Sale-proceeds of trees	..	1,131	1,131	
	Total, Timber .. No.	86,025	23,843	23,843	II (*a*).
	Total, Timber .. Cart-loads.	2,600			
	Firewood.. .. .. Cart-loads.	15,544	5,606	5,606	
	Do. Marine Department contract.	..	100	100	
	Sale of dead trees	..	158	158	
	Charcoal .. .. .. Cart-loads.	116	351	351	
	Total, Firewood and Charcoal Cart-loads ..	15,660	6,215	6,215	II (*b*).
	Bamboos .. .. .. Cart-loads.	8,897	9,737	9,737	
	Bamboos .. .. .. No.	452,705	2,258	2,258	
	Total, Bamboos .. Cart-loads.	8,897	11,995	11,995	II (*c*) Rs. 11,994 in form 64.
	Total, Bamboos .. No.	452,705			
	Grazing	..	971	971	
	Total, Grazing ..	..	971	971	II (*d*).
	Other, minor produce	..	539	539	
	Total, Minor produce ..	..	539	539	II (*e*).
	Grand Total .. No.	538,730	43,563	43,563	Rs. 43,562 in form 64.
	Grand Total .. Cart-loads.	27,157			

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year	Remarks.
			Rs.	Rs.	
Kistna ..	Timber .. .. .. Cart-loads.	14,834	11,562	11,562	
	Palmyra trees .. .. No.	1,004			
	Total, Timber .. Cart-loads.	14,834	11,562	11,562	II (*a*) Rs. 12,389 in form 64.
	No.	1,004			
	Firewood .. .. Cart-loads.	85,177	6,586	6,586	
	Charcoal .. .. .. ,,	213	401	401	
	Total, Firewood and Charcoal. ,,	85,390	6,987	6,987	II (*b*) Rs. 8,052 in form 64.
	Bamboos .. .. .. Cart-loads.	1,115	1,351	1,351	
	Total, Bamboos .. Cart-loads.	1,115	1,351	1,351	II (*c*) Rs. 1,425 in form 64.
	Grazing	..	39,327	39,327	
	Total, Grazing ..	..	39,327	39,327	II (*d*) Rs. 37,927 in form 64.
	Palmyra leaves	..	205	205	
	Other minor produce	..	13,453	13,453	
	Total, Minor produce ..	..	13,658	13,658	II (*e*) Rs. 16,323 in form 64.
	Grand Total .. No.	1,004	72,885	72,885	Rs. 76,116 in form 64.
	Cart-loads.	101,339			
Nellore ..	Palmyra trees .. .. No.	374	663	663	
	Timber .. .. .. Cart-loads.	334	472	472	
	Sale of trees on dharkhast lands, &c ..	..	5,250	5,250	
	Total, Timber .. No.	374	6,385	6,385	II (*a*) Rs. 6,337 in form 64.
	Cart-loads.	334			
	Firewood.. .. .. Cart-loads.	4,077	3,949	3,415	
	Sale of firewood on Asalaminah lands..	..	1,371	1,306	
	Total, Firewood .. Cart-loads.	4,077	5,320	4,721	II (*b*) Rs. 4,816 in form 64.
	Bamboos .. .. .. Cart-loads.	1	3	3	
	Total, Bamboos .. Cart-loads.	1	3	3	II (*c*).
	Grazing and fodder grass	..	4,683	4,683	
	Total grazing and fodder grass ..	..	4,683	4,683	II (*d*).
	Rents of topes of jungle products, &c.	..	3,328	3,328	
	Soapstone licenses .. .. No.	33	66	66	
	Rents and sales of palmyra leaves ..	..	1,020	607	
	Rents on tangedu bark	..	14,400	14,400	
	Other minor produce	..	103	103	
	Total, Minor produce .. No.	33	18,917	18,504	II (*e*) Rs. 15,972 in form 64.
	Grand Total .. No.	407	35,308	34,296	Rs. 31,811 in form 64.
	Cart-loads.	4,412			
Cuddapah ..	Miscellaneous timber .. Cart-loads.	1,804	13,596	13,596	As per details given in the same form for 1884-85.
	No.	374			
	Trees on durkhast land. ,,	16,129	5,386	5,386	
	Total, Timber .. No.	16,503	18,982	18,982	II (*a*).
	Cart-loads.	1,804			
	Firewood .. .. .. Cart-loads.	39,942	15,102	15,102	
	Sale of dead trees .. ,,	20,452	8,787	8,787	
	Engine fuel .. .. ,,	22,696	25,508	25,508	
	Charcoal .. .. .. ,,	598	1,068	1,068	
	Total, Firewood and Charcoal, Cart-loads.	83,688	50,465	50,465	II (*b*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Cuddapah—*cont.*	Bamboos .. .. .. No.	855,016	6,623	6,623	
	Total, Bamboos .. No.	855,016	6,623	6,623	II (*c*).
	Fodder grass .. .. Cart-loads.	284	79	79	
	Grazing fees .. .. No.	1,317	95	95	
	Total Grazing and Fodder grass .. No.	1,317	174	174	II (*d*).
	Total Grazing and Fodder grass .. Cart-loads.	284			
	Tangedu bark .. .. Cart-loads.	1,296	5,162	5,162	
	Miscellaneous barks .. ,,	177	248	248	
	Lease of fruit trees	..	26,825	26,825	
	Other minor produce	..	3,609	3,609	
	Total, Minor produce .. Cart-loads.	1,473	35,844	35,844	II (*e*) Rs. 35,846 in form 64.
	Grand Total .. No.	872,836	1,12,088	1,12,088	Rs. 1,12,090 in form 64.
	Grand Total .. Cart-loads.	87,249			
	Timber .. .. .. Cart-loads.	19,646	42,738	42,738	
	Total, Timber .. Cart-loads.	19,646	42,738	42,738	II (*a*).
	Firewood .. .. Cart-loads.	18,130	16,639	16,639	
	Charcoal .. .. ,,	1,821			
	Engine fuel	..	4,255	4,255	
	Total, Firewood and Charcool, Cart-loads.	19,951	20,894	20,894	II (*b*) Rs. 17,589 in form 64.
Kurnool ..	Bamboos .. .. .. Cart-loads.	12,184	14,332	14,332	
	Total, Bamboos ..	12,184	14,332	14,332	II (*c*) Rs. 14,331 in form 64.
	Grazing	..	1,109	1,109	
	Total, Grazing ..	..	1,109	1,109	II (*d*).
	Minor produce .. .. Cart-loads.	941	1,659	1,659	
	Total, Minor produce .. Cart-loads.	941	1,659	1,659	II (*e*).
	Grand Total .. Cart-loads.	52,722	80,732	80,732	Rs. 77,426 in form 64.
	Timber .. .. .. No.	109	725	725	
	Timber .. .. .. Cart-loads.	418			
	Trees on durkhast lands	..	421	421	
	Total, Timber .. No.	109	1,146	1,146	II (*a*) Rs. 1,105 in form 64.
	Total, Timber .. Cart-loads.	418			
	Firewood .. .. .. Cart-loads.	663	1,864	1,864	
	Deadwood .. .. No.	80	888	888	
	Deadwood .. .. Cart-loads.	2,418			
	Charcoal .. .. .. ,,	339	507	507	
Bellary ..	Total, Firewood and Charcoal .. No.	80	3,259	3,259	II (*b*).
	Total, Firewood and Charcoal .. Cart-loads.	3,420			
	Bamboos .. .. .. No.	1,465	37	37	
	Bamboos .. .. .. Cart-loads.	3			
	Total, Bamboos .. No.	1,465	37	37	II (*c*).
	Total, Bamboos .. Cart-loads.	3			
	Fodder grass .. .. Cart-loads.	283	143	143	
	Grazing fees	..	194	194	
	Total, Grazing and Fodder grass Cart-loads.	283	337	337	II (*d*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Bellary—*cont.*	Tangedu bark, &c. .. Cart-loads.	1,106	4,392	4,392	
	Soapstone .. .. ,,	47	5	5	
	Leaves for manure .. ,,	55	20	20	
	Rent of fruit trees	..	10,034	10,034	
	Other minor produce	..	17	17	
	Total, Minor produce .. Cart-loads.	1,208	14,468	14,468	II (*e*).
	Grand Total .. No.	1,654	19,247	19,247	Rs. 19,206 in form 64.
	Grand Total .. Cart-loads.	5,332			
Anantapur ..	Palmyra trees .. .. No.	113	328	328	
	Timber .. .. .. Cart-loads.	193	400	400	
	Miscellaneous trees	..	220	220	
	Total, Timber .. No.	113	948	948	II (*a*).
	Total, Timber .. Cart-loads.	193			
	Firewood .. .. .. Cart-loads.	1,974	951	951	
	Deadwood .. .. ,,	2,001	1,059	1,059	
	Charcoal .. .. .. ,,	56	59	59	
	Total, Firewood and Charcoal, Cart-loads.	4,031	2,069	2,069	II (*b*) Rs. 2,068 in form 64.
	Bamboos .. .. .. Cart-loads.	127	286	286	
	Total Bamboos .. Cart-loads.	127	286	286	II (*c*).
	Grass	..	6	6	
	Total, Grazing ..	..	6	6	II (*d*).
	Tangedu bark .. .. Cart-loads.	745	6,331	6,331	Includes 2,606, amount of deposit.
	Do. leaves .. .. ,,	7,897	2,024	2,024	
	Jolli contract	..	2,252	2,252	
	Amroy	..	3,811	3,811	
	Palmyra leaves	..	40	40	
	Roughstone .. .. Cart-loads.	50	3	3	
	Total, Minor produce .. Cart-loads.	8,692	14,461	14,461	II (*e*) Rs. 14,481 in form 64.
	Grand total .. No.	113	17,770	17,770	Rs. 17,789 in form 64.
	Grand total .. Cart-loads.	13,043			
Nilgiris ..	Teak trees .. .. No.	15	499	499	
	Teak trees .. .. Cart-loads.	69			
	Miscellaneous trees .. No.	605	1,426	1,426	
	Miscellaneous trees .. Cart-loads.	5			
	Total, Timber .. No.	620	1,925	1,925	II (*a*).
	Total, Timber .. Cart-loads.	74			
	Firewood .. .. Cart-loads.	4,989	5,829	5,829	
	Charcoal .. .. ,,	3	12	12	
	Total, Firewood and Charcoal, Cart-loads.	4,992	5,841	5,841	II (*b*) Rs. 5,702 in form 64.
	Bamboos .. .. .. No.	122,250	1,825	1,825	
	Bamboos .. .. .. Cart-loads.	491			
	Total, Bamboos .. No.	122,250	1,825	1,825	II (*c*) Rs. 1,821 in form 64.
	Total, Bamboos .. Cart-loads.	491			
	Grazing lease	..	164	164	
	Fodder grass .. .. Cart-loads.	267	86	86	
	Grazing fees	..	163	163	
	Total, Grazing and Fodder grass, Cart-loads.	267	413	413	II (*d*) Rs. 326 in form 64.

Timber and other produce cut, collected and removed from the forests, &c.—*conj.*

District.	Produce removed. Description.		Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
				Rs.	Rs.	
Nilgiris—*cont.*	Vembadam bark ..	Cart-loads.	14	140	140	
	Canes	No.	500	23	23	
		Cart-loads.	15			
	Reeds	No.	5,025	39	39	
		Cart-loads.	56			
	Wattle		..	11	11	
	Wild date		..	30	30	
	Coffee seeds		..	37	37	
	Other minor produce		..	394	394	
	Total, Minor produce ..	No.	5,525	674	674	II (*e*) Rs. 727 in form 64.
		Cart-loads.	85			
	Grand Total ..	No.	128,395	10,678	10,678	Rs. 10,501 in form 64.
		Cart-loads.	5,909			
	Grand Total of Revenue of the Northern Circle under II.	No.	1,543,139	4,13,307	4,12,295	Rs. 4,09,078 in form 64.
		Cart-loads.	361,523			

Annual Form No. 73-A.

Forest Department, Madras, Northern Circle.

Abstract showing the value of timber and other produce at sale depôts, for the year 1886-87.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Ganjam	Sál logs	9	102	101	274	2,906	1,454	1,353	..	
	Do. sleepers	2	7	1	492	7	830	829	..	
	Do. slabs, &c.	52	..	6	1,687	..	100	94	..	Estimate.
	Do. poles	..	..	..	19	47	10	10	..	
	Piasál logs	1	4	2	5	44	25	23	..	
	Blackwood logs	6	63	9	4	28	19	10	..	
	Miscellaneous logs	57	980	569	264	3,531	883	314	..	
	Do. planks and rafters	..	..	..	883	139	25	25	..	
	Ebony	..	..	..	5	32	32	32	..	
	Demarcation posts	..	..	..	2,038	..	127	127	..	
	Fuel	..	..	..	Tons 14	700	5	5	..	Do.
	Minor produce	..	..	..	Mds. 903	..	113	113	..	
	Total	..	..	688	..	..	3,623	2,935	..	
Nellore	Miscellaneous poles and sleepers	831	843	261	121	122	38	..	223	
	Firewood	Tons 649	32,450	5,213	Tons 1,810	99,500	13,113	7,900	..	
	Rattans	Bndls. 21	..	115	Bndls. 21	..	121	6	..	
	Chey root	Mds. 220	..	880	..	..	..	..	880	
	Suratichekka	..	..	..	Mds. 82	..	210	210	..	
	Total	..	..	6,469	..	..	13,482	7,013	..	
Cuddapah	Redwood roots	Tons 3	150	50	Ton ½	12	5	..	45	
	Minor produce	Mds. 2	..	2	Mds. 2,364	..	1,373	1,371	..	
	Total	..	..	52	..	..	1,378	1,326	..	
Kurnool	Gallnuts B	..	..	..	Mds. 1,530	..	191	191	..	
	Total	..	..	..	..	..	191	191	..	
Bellary	Minor produce	Mds. 77	..	30	..	..	..	..	30	
		lb. ¾	..	..	..	..	..	..	..	
	Total	..	..	30	..	..	..	..	30	

Abstract showing the value of timber and other produce at sale depôts, for the year 1886-87.—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Anantapur	Teakwood spokes and felloes	108	15	19	..	..	..	..	19	
	Minor produce	Mds. 586	..	530	Mds. 1,938½	..	2,353	1,823	..	
	Total ..	..	..	549	..	..	2,353	1,804	..	
Nílgiris	Miscellaneous poles	260	..	48	..	..	..	..	48	
	Acacia planks and rafters	..	..	..	447	..	826	826	..	
	Firewood	Tons 442	..	2,776	Tons 499	..	3,238	462	..	
	Minor produce	Md. 1	..	1	..	..	..	..	..	
	Total ..	..	..	2,825	..	..	4,064	1,239	..	
	Grand total ..	..	..	10,613	..	..	25,091	14,478	..	

ANNUAL FORM No. 73-B.

Forest Department, Madras, Northern Circle.

Return of stores, tools, and plant on 1st April 1887.

District	Description of stores, &c.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
		Number.	Value.	Number	Value.	In favor of the year	Against the year.	
			RS.		RS.	RS.	RS.	
Direction ..	Surveying and other instruments.	14	174	22	531	..	..	
	Furniture	60	572	71	882	..	..	
	Miscellaneous	..	..	3	39	..	..	
	Total ..	74	746	96	1,452	706	..	
Ganjam ..	Bungalow, head-quarters.	1	1,350	1	1,669	..	..	Russellkonda.
	Bungalow, inspection ..	4	750	4	750	..	..	Suradá.
	Inspection huts	12	585	12	585	..	..	
	Guards' sheds	3	20	3	20	..	..	
	Furniture	14	95	35	336	..	..	
	Tools	110	188	222	323	..	..	
	Surveying and other instruments	10	128	27	198	..	..	
	Miscellaneous	1	8	1	8	..	..	
	Total ..	155	3,124	305	3,787	665	..	
Vizagapatam.	Sheds	2	45	2	45	..	..	
	Tools	5	2	5	2	..	..	
	Surveying and other instruments	7	95	17	162	..	..	
	Furniture	9	119	25	228	..	..	
	Total ..	23	261	49	437	176	..	
Godávari ..	Sheds	..	..	10	132	..	..	
	Surveying and other instruments.	7	40	21	155	..	..	
	Tools	1	5	312	252	..	..	
	Furniture	29	151	27	344	..	..	2. Unserviceable.
	Miscellaneous	..	..	35	83	..	..	
	Total ..	37	196	405	966	770	..	
Kistna ..	Surveying and other instruments.	13	..	16	192	..	..	
	Tools	385	21	246	145	..	..	
	Furniture	17	90	30	231	..	..	
	Total ..	415	111	292	568	457	..	
Nellore ..	Cash safes	4	195	4	210	..	..	
	Scales and weights, sets.	6	310	7	744	..	..	
	Furniture	99	363	97	567	..	..	
	Boxes	19	10	19	30	..	..	
	Tools	480	377	480	377	..	..	
	Surveying and other instruments	16	156	45	274	..	..	
	Miscellaneous	16	8	16	8	..	..	
	Tramway	2	13,800	3	15,574	..	..	
	Boats	6	2,380	6	2,514	..	..	
	Total ..	648	17,599	677	20,298	2,699	..	
Cuddapah ..	Bungalow, inspection ..	4	15,650	4	15,650	..	..	Kodur, Sanipaya, Balapalle and Horsleykonda.
	Ranger's house	3	1,020	4	1,620	..	..	Kodur, Sidhout, Rajampet and Badvél.
	Office house	1	200	1	200	..	..	Kodur.
	Sheds	58	960	61	1,085	..	..	
	Surveying and other instruments.	15	153	33	185	..	..	
	Tools	388	413	507	584	..	..	
	Furniture	59	580	59	580	..	..	
	Total ..	528	18,976	669	19,904	928	..	

Return of stores, tools, and plant on 1st April 1887.

District.	Description of stores, &c.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Kurnool	Bungalow, head-quarters.	1	644	1	644	..	..	Value of Nandyal bungalow site.
	Bungalow, inspection ..	19	7,447	19	7,447	..	..	
	Rangers' houses ..	4	1,476	4	1,476	..	..	
	Sheds	14	1,065	14	1,065	..	..	
	Furniture	30	162	30	162	..	..	
	Tools	348	500	363	614	..	..	
	Surveying and other instruments.	16	206	26	214	..	..	
	Cash chest	..	..	1	8	..	..	
	Scales with weights ..	..	..	1	50	..	..	
	Total ..	432	11,500	459	11,680	180	..	
Bellary	Ranger's house	1	460	1	460	..	..	Sandúr.
	Surveying and other instruments.	2	67	17	125	..	..	
	Furniture	13	141	14	201	..	..	
	Tools	57	29	183	180	..	..	
	Scales with weights up to 500 lb.	..	..	1	272	..	..	
	Total ..	73	697	216	1,238	541	..	
Anantapur	Bungalow	1	800	1	440	..	..	Collapsed
	Head-quarters bungalow.	..	..	1	6,469	..	..	
	Sheds	15	19	15	173	..	..	
	Surveying and other instruments.	18	75	42	126	..	..	
	Furniture	17	157	35	357	..	..	
	Cash safe with padlock.	1	12	1	12	..	..	
	Tools	103	138	144	147	..	..	
	Total	155	1,201	239	7,724	6,523	..	
Nílgiris	Sheds	22	942	26	3,232	..	..	
	Surveying and other instruments.	11	69	35	341	..	..	
	Charcoal kiln	..	..	1	582	..	..	
	Furniture	27	276	42	534	..	..	
	Tools	493	1,106	621	1,500	..	..	
	Elephants	2	3,000	2	3,000	..	..	
	Do. calf.. ..	1	500	1	500	..	..	
	Miscellaneous.							
	Chains of elephants ..	8	240	8	240	..	..	
	Total ..	564	6,133	736	9,929	3,796	..	
	Grand Total ..	3,104	60,544	4,143	77,985	17,441	..	

Annual Form No. 74.

Forest Department, Madras.

Statement of Elephants in the Northern Circle, during the year 1886-87.

Part I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
				Rs. A. P.	
Nílgiris ..	1. Lakshmi.. ..	Transferred from the Anamalais during 1882 ..	April 1886	112 15 0	
	2. Chinna Lakshmi..		May ,, ...	123 15 0	
	3. Mahabaksh (calf).		June ,, ...	149 5 0	
			July ,, ...	136 2 0	
			August ,, ...	154 11 0	
			September ,, ...	138 11 0	
			October ,, ...	107 8 0	
			November ,, ...	53 10 0	
			December ,, ...	132 12 0	
			January 1887	110 0 0	
			February ,, ...	50 0 0	
			March ,, ...	*213 10 0	
			Total ..	1,483 3 0	

* In the statement submitted to the Accountant-General the approximate expenditure for March given by District Forest-officer, *i.e.*, Rs. 148-7-0 was adopted for striking average per head.

Part II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	Remarks.

Nílgiris—*Nil.*

Part III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	How disposed of.

Nílgiris—*Nil.*

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 26th October 1887, Forest No. 604 :—

J. H. GARSTIN, ESQ., C.S.I.

Read—the following letter from Lieutenant-Colonel I. CAMPBELL WALKER, Conservator of Forests, in charge of Southern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 28th July 1887, No. 1074 :—

I have the honor to submit the Annual Administration Report for the Southern Circle for the year 1886-87, together with the prescribed returns, and to request that the proof may be sent to me for correction.

2. I regret to have to state that not a single district report was received on the due date, the first being that from North Arcot, received on the 16th May or only one day late, and the last that from South Canara, which did not reach me till the 8th June.

Of the others, which were more than a week late, I must specify Coimbatore, both South and North, and Madura, which reached me on the 26th and 31st May. Supplemental statements and returns continued to be received up to the first week in July. The time allowed for checking and compiling the voluminous returns in my office and writing the report for the Circle is only two months, and if district reports are late, mine will naturally be the same.

3. The remarks in paragraph 3 of my covering letter to last year's report again apply in the case of most districts, although District Forest-officers were supplied with copies of last year's report and the returns in March 1887, which was fortunate, considering that the report is not yet finally published and distributed with the Government order thereon.

4. I request that 20 copies of this year's report and returns, with the Board's review, may be supplied as last year.

ENCLOSURE.—Administration Report for 1886-87.

Read—the following letter from A. W. PEET, Esq., Acting Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 8th August 1887, No. 853 :—

I have the honor to submit the annual report of forest operations in the Northern Circle for 1886-87, and to request the favor of your directing the proofs to be sent to me for correction.

2. I regret the delay in the submission, which is due to the very late receipt of the district reports and statements, especially that of Nellore which reached my office only on the 18th July, three days after my own report was due. Several other reports were late, and several returns had to be sent back for correction.

ENCLOSURE.—Administration Report for 1886-87.

Resolution—dated 26th October 1887, Forest No. 604.

The Board resolve to submit to Government their review of the forest reports of the Northern and Southern Circles for the year 1886-87.

2. The establishment for the Presidency consisted of the following officers:—

Conservators	2
Deputy Conservators	13
Assistant Conservators	12
Sub-Assistant Conservators	12
Rangers	50
Foresters	114
Guards	693

The average charge of District Forest-officer, in the Southern Circle, is about 4,700 square miles; the figure is not given for the Northern Circle. The average area of each range charge in the Southern Circle is about 1,019 square miles, of which 115 miles are actual forest. The ranges in the Northern Circle seem to be much smaller, but the Conservator is not able yet to give accurate information on the point.

3. The gross receipts of the department amounted to Rs. 12,46,783, and the expenditure to Rs. 11,55,687, leaving a balance of Rs. 91,096 on the year's work. The financial working of the year will be considered later on in the review.

4. The following table gives the necessary information regarding the changes in area made in the different classes of forests under the control of the Forest Department during the year:—

—	Area on 31st March 1886.	Added.	Excluded.	Area on 31st March 1887.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
A. Reserved forests under Act V of 1882.	1,628	685	1	2,312
B. Forests reserved under previous rules.	1,109	1	43	1,067
C. Leased forests	198	..	..	198
D. Reserved lands	7,060	1,085	653	7,492
E. Other forests	1,126	21	48	1,099
Total ..	11,121	1,792	745	12,168

The explanation given in paragraph 11, Northern Conservator's report, for the difference of one mile in the area of reserved lands, seems incorrect; the error is in appendix 59-C, where 116,277 acres against Bellary have been converted into 183 square miles instead of 182 square miles, 182 being above the actuals 181·6. The total area under forest control increased during the year by 1,047 square miles, viz., by 657 in the Northern Circle and 410 in the Southern Circle. In the Northern Circle 328 square miles of reserved lands were notified under section 16 of the Act and 313 square miles in the Southern Circle. This compares favorably with the work of the previous year, when only 124 square miles of reserved lands were declared reserved forests under section 16. Under section 4 of the Act 1,548½ square miles of land were notified, viz., 427 in the Southern Circle and 1,121½ in the Northern Circle. The total area of reserved forests under Act V of 1882 was 2,312 square miles compared with 1,628 square miles, the area of the previous year. The following were the areas under each class of forests in the two circles at the close of the year:—

—	Reserved forests.	Reserved lands.	Leased and other forests.
	SQ. MLS.	SQ. MLS.	SQ. MLS.
Northern Circle	474	3,837	985
Southern do.	1,838	3,655	1,379
Total ...	2,312	7,492	2,364

The Conservator, Southern Circle, observes that 114 square miles, which do not appear in the above areas, were notified as reserved forests before the close of the year, but as the date from which the notification took effect was not within the year under report, the area has been omitted.

5. The areas proposed for reservation under section 4 of the Act but not yet reserved amounted to 1,744·12 square miles in the Southern Circle, and out of the area the settlement of 1,015·85 square miles was almost complete. In the Northern Circle there remained an area containing 6,240½ square miles, which has been notified under section 4 of the Act, and in which the settlement has not yet been completed. In the Northern Circle the settlement work made good progress in Cuddapah, Bellary, Kurnool and Godávari, and but slow progress in Ganjam and Anantapur. Taking districts separately, the following table shows the advance made up to date :—

	Northern Circle.			Southern Circle.	
	Forests reserved under section 16.	Forests notified under section 4.		Forests reserved under section 16.	Forests notified under section 4.
	SQ. MLS.	SQ. MLS.		SQ. MLS.	SQ. MLS.
Nellore	·50	473½	Chingleput	63·96	35·04
Cuddapah	272·00	1,573	North Arcot	194·61	173·63
Anantapur	13·50	157½	South Arcot	2·75	216·52
Nilgiris	188·00	120½	Salem	171·96	532·97
Ganjam	..	704	Trichinopoly	31·41	139·74
Godávari	..	647	Tanjore	..	6·56
Kistna	..	690	Coimbatore	664·60	..
Kurnool	..	1,677	Madura	286·98	95·00
Bellary	..	198	Tinnevelly	286·81	269·70
			Malabar	134·00	166·80
			South Canara	1·38	108·16
Total ..	474·00	6,240½	Total ..	1,838·46	1,744·12

From the above table it will be seen that settlement work is backward in the Northern Circle, while it is well advanced in the Southern Circle. The progress of settlement in the current year is likely to be more rapid than it has hitherto been. Large areas will probably be finally settled in Kurnool, Bellary and Nellore during this year.

6. *Village forests.*—Little has been done during the year in connection with village forests. The reports received from Collectors on the proposals on the subject were submitted to Government with Board's Proceedings, dated 29th April 1887, Forest No. 235. The Board in those Proceedings made revised proposals on the subject and the orders of Government are awaited on them. Nothing has been lost by the matter having stood over, as the Forest Department has been thus able to give more time to the formation of reserved forests, the making of preliminary working-plans and other more immediately important operations.

7. *Reserved lands.*—The area of reserved lands includes areas which are in progress of settlement as reserved forests and areas which have been declared reserved under the rules framed under section 26 of the Act. The Board have, in their Proceedings regarding village forests, expressed themselves in favor of the elimination of the class of reserved lands and the division of all waste land into either reserved forest or unreserved lands. The total area of reserved lands in the Southern Circle was 3,655 square miles and in the Northern Circle 3,837 square miles. In the report from the Northern Circle, however, some of the lands notified under section 4 and included in the 6,000 and odd acres awaiting settlement have not been included in the above area of reserved lands. As all lands notified for reservation are now placed under the rules under section 26 of the Act, under a standing order of the Board, the area of reserved lands should include all the areas notified for settlement. This is apparently the case in the report of the Southern Circle.

8. The expenditure during the year on demarcation, compensation and on survey and working-plans was—

	Northern Circle.		Southern Circle.	
	1885-86.	1886-87.	1885-86.	1886-87.
	Rs.	Rs.	Rs.	Rs.
Demarcation	13,060	19,545	9,728	8,761
Compensation ...	1,505	2,954	1,081	19,829
Survey and working plans	39	800	1,068	2,727
Total ...	14,604	23,299	11,877	31,317

The expenditure in the Southern Circle on compensation was chiefly in connection with the new reserved forests in Salem, where several holders of trees on tree pattas were of necessity bought out. Compensation was also paid in connection with the new timber depôt at Calicut. In some districts it is to be expected that considerable sums will necessarily be spent in compensation in connection with the settlement of reserves.

9. *Demarcation.*—In the Northern Circle 1,190 miles were demarcated and 7,207 posts erected, the cost being Rs. 19,158; in the Southern Circle 1,134 miles were demarcated at a cost of Rs. 8,735. The cost per mile in the Northern Circle was Rs. 16-1-7 and in the Southern Circle Rs. 7-11-3. The chief work in the Northern Circle was done in Ganjam, Godávari, Cuddapah, Bellary and on the Nílgiris, and in the Southern Circle in Malabar, Salem, Coimbatore, South Canara and South Arcot as far as the length of line demarcated is concerned, but owing to the work in some cases being merely preliminary and not thoroughly finished off, the actual expenditure was not greatest in those districts, but in Chingleput, Salem, Madura, Coimbatore and Malabar, where the best work was done. The rates at which the work was done as usual vary very much. The rate in Cuddapah was very high, owing to the large number of posts used and the same cause raised the expenditure on the Nílgiris. The rates in the Northern Circle were in almost every case higher than those charged in the Southern Circle, and if the work is equally efficiently done in both circles, there should not be this difference. The attention of the Conservators is drawn to the matter. No doubt the nature of the tract of country demarcated accounts for the difference in the rates in different parts of the same district, but taking each circle as a whole, there seems no reason why the rates should differ so much. The figures of the Northern Circle given in the body of the report differ from the figures given in the appendices; the latter are the audited figures which are correct.

10. In the Northern Circle, survey work does not appear to have been carried on except in Ganjam, where the surveys of nine reserves were completed. On the Nílgiris the village maps already in existence have answered the purpose of forest surveys, and no forest survey on a larger scale is there necessary. The Conservator, Southern Circle, reports that the survey party under the Surveyor-General, Calcutta, began operations in Madura, but not much appears yet to have been done. Some departmental forest survey work was done in Chingleput, Coimbatore and Trichinopoly. A Forest Atlas composed of maps prepared by the Revenue Survey Department is under preparation. It will be useful in showing at once the position of all the forests under the control of the department, their areas and the class to which they belong. Ultimately it is intended to compile a District Forest Altlas for each district which will consist of a collection of carefully drawn plans of all the State forests in the district on a larger scale; but this will be a work of time.

11. *Working-plans.*—In the Northern Circle, the subject of working-plans received considerable attention. As regards the Nílgiri forests, the whole subject was exhaustively discussed in a note by Mr. Gamble. The Acting Conservator now gives the results of the year's work in those forests in Bellary, Cuddapah and the

Nílgiris, which are worked under working-plans. The Board have already submitted Mr. Gamble's note to Government with their views on the advisability of adopting his methods of working in the sholahs on the Nílgiris. The Government have since concurred with the Board in considering it doubtful whether Mr. Gamble's plan is suitable. The effect of the system advocated should be carefully watched. It may be hoped that by the close of the current year a considerable advance will have been made in the preparation of working-plans for the forests on the plains.

12. In the Southern Circle, three preliminary working-plans were approved of during the year. They were, however, for small areas. Several other plans were in preparation and considerable progress will be made in the matter during the current year. The preparation of the plans takes a considerable time at present, partly from the inexperience of most of the Forest-officers in the subject and partly from the want of maps. The Board observe that Mr. Peet, the Acting Conservator, agrees with Mr. Gamble in considering that, for some years to come, no special working-plan party will be necessary in this Presidency. The Southern Circle Conservator reports that information regarding the number and dimensions of the sandalwood trees on the Javadi hills is being collected. These trees are numerous and form a very valuable property.

13. *Fire protection.*—The following statement gives the areas protected from fire in each circle and the amount of expenditure:—

—	Area attempted.	Burnt.	Expenditure.	Cost up to end of year.	Since when protected.
	SQ. MILES.	SQ. MILES.	RS.	RS.	
Ganjam	72·0	1·20	277	1,060	1885
Godávari	78·7	Nil	Nil	Nil	1887
Kistna	36·0	·60	743	2,302	1884, 1885
Nellore	89·6	3·60	135	265	1885
Cuddapah	313·5	74·00	3,389	17,330	1871—1887
Kurnool	22·6	Nil.	Nil	2,480	1884—1887
Bellary	268·0	64·60	2,539	7,568	1883
Anantapur	74·5	7·90	1,357	4,036	1884—1886
Nílgiris	213·2	·39	3,428	8,133.	1883—1886
	1,168·1	152·29	*11,368	43,174	..
Chingleput	11·4	Nil	386	1,883	1883—1884
North Arcot	468·5	3·8	1,917	11,028	1874—1886
South Arcot	121·5	22·2	1,224	3,190	1877—1886
Salem	48·4	·47	2,561	10,166	1881—1885
Trichinopoly	26·5	·09	189	973	1885—1886
Coimbatore (North)	3·6	..	297	699	1879—1886
Do. (South)	22·3	·5	790	4,031	1882—1885
Madura	243·8	9·5	4,724	14,068	1882—1887
Tinnevelly	62·2 + 16 miles.	1·3	2,320	4,732	1884—1887
Malabar (Wynaad and Pálghat)	47·8	·47	1,283	6,561	1873—1885
Do. (Nílambúr)	14·7	Nil	732	2,353	1842—1885
South Canara	10·3	·13	388	631	1882—1887
	1,081·0 + 16 miles.	38·46	16,811	60,315	..

* Given as Rs. 12,133 in form 64.

The Conservator, Northern Circle, does not furnish any information regarding the area that escaped fire without special protection.

14. In the Northern Circle out of the area attempted, 489·4 square miles were under special protection and 678·9 miles under ordinary protection. The area under special protection shows a small decrease compared with the area protected in the previous year. The area under ordinary staff was, however, very much larger than in the year before. The protection of the specially-protected area did not show such good results as in the previous year. Fires occurred in 83·8 square miles compared with 22·7 miles in the year before. The amount expended on special establishments in 1885-86 was Rs. 5,106, compared with Rs. 10,216, the expenditure in the year under report. There was a great increase in the number of watchers entertained.

15. In the Southern Circle in 1885-86, 906·08 square miles were attempted compared with 1081·6 in the year under report. Fires occurred in 38·8 square miles

of forest compared with 15·1 square miles in the previous year. The expenditure was Rs. 16,811 compared with Rs. 11,482 in 1885-86.

16. In the Northern Circle, the chief destruction occurred in Cuddapah and Bellary. In Nellore, an undefined boundary was a difficulty; and in Godávari, the Conservator reports that the Koyas (the local jungle tribe) would not come forward to act as watchers. In the Southern Circle, considerable progress was made in increasing the area under protection; fires were, however, heavy in South and North Arcot and Madura. It must be remembered that the north-east monsoon ceased last year before the ordinary date, and many districts suffered from excessive dryness very early in the year. The cost of protection was moderate, but until the work is more thoroughly organized, there is little use in comparing the results of one year with another.

17. *Grazing.*—The following table shows the receipts from grazing in each district:—

	Southern Circle. Rs.		Northern Circle. Rs.
Chingleput	641	Ganjam	5
North Arcot	1,423	Godávari	971
South Arcot	1,306	Kistna	37,927
Salem	24	Nellore	4,683
Trichinopoly	2,328	Cuddapah	174
Tanjore	414	Kurnool	1,109
North Coimbatore	22,465	Bellary	337
South Coimbatore	5,242	Anantapur	6
Madura	1,392	Nilgiris	326
Tinnevelly	313		
Malabar	117		
Total ...	35,665	Total ...	45,538

The practice with regard to grazing varies very much from district to district. In Kistna the revenue from grazing far exceeded that of any other district. It has there been the custom for many years to lease out the right of grazing. In North Coimbatore grazing fees were imposed, but the rates there were found too high and were reduced by the order of Government. The Board concur with Colonel Walker in his views as to the necessity of putting all grazing on the lower slopes of the steep hills in South Coimbatore under control, and recent proposals with regard to the same subject in North Coimbatore have been made to Government in connection with the working-plans of the forests in the Bolampatti valley.

18. The Conservator, Northern Circle, reports that as much as 15,000 head-loads of grass were removed from the Muchukota Forest in Anantapur, and the careful reservation of that forest must have already proved of great value to the neighbouring villages, the tract being one of the most arid in the Presidency. In Salem and Cuddapah, no fees were levied during the year. The question of grazing still causes considerable difficulty, and some years of management and experience must pass before it can be satisfactorily settled. The present system of managing each district according to local requirements is probably for the present the best. The aim should be the gradual control of all grazing in reserved lands and forests by the Forest Department, as pointed out by the Government of India in paragraph 13 of their review on the administration report of the previous year. This control is gradually extending and when it is remembered that up to within a very few years ago control in this matter was almost unknown in the Presidency, it cannot be wondered at that the ryots are impatient of it still. Considerable caution must be used in making progress in this matter if widespread discontent is not to be aroused. The ultimate object is to have all grazing in Government forests restricted and made subject to a reasonable tax, and the result will probably be a reduction in the number of undersized, underbred and diseased animals now so common, an object desired by the Government of India. Progress, however, must be slow, and it is to be remembered that the result can only be obtained by an alteration in the ingrained habits of the whole agricultural population.

19. *Police.*—The prosecutions in connection with forest offences and their disposal are compared in the following statement with the results of previous years :—

—	Pending from 1885-86.	In the year.	Total.	Convictions.		Acquittals.		Compounded.		Total.	
				Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.
Southern Circle..	94	1,339	1,433	574	1,231	243	748	460	775	1,277	2,754
Northern do. ..	66	994	1,060	*546	1,364	300	991	111	250	957	2,605
Total ..	160	2,333	2,493	1,120	2,595	543	1,739	571	1,025	2,234	5,359

* In Form No. 63 of the Northern Circle, it is shown as 657, which is incorrect, and apparently includes the number of cases compounded.

Pending.	Percentage of convictions to total disposed of.	Percentage of compounded cases to total disposed of.
156	44·9	36·1
103	57·05	11·6

Compared with past years the results were as follows :—

—	Cases.	Convicted.	Acquitted.
1884-85	1,876	1,115	475
1885-86	2,269	1,280	832
1886-87	2,493	1,120	543

The results on the whole were satisfactory. The power of compounding is more freely used in the Southern than in Northern Circle, and this accounts for the small percentage of conviction to total cases. The amount of compensation realised in the Southern Circle was Rs. 2,350 and Rs. 455 in the Northern Circle. The average amount for each case was Rs. 4-2-0 in the Northern Circle and Rs. 5-2-0 in the Southern Circle.

20. *Roads and Buildings.*—In the Southern Circle 62½ miles of new roads were made at the cost of Rs. 6,244 and 108¼ miles of road were repaired at the total cost of Rs. 3,280. The total expenditure was Rs. 9,524. In the Northern Circle, Rs. 11,219 were spent on roads and bridges. Two roads of about six miles in Ganjam, one of about five miles in Cuddapah and two roads on the Nílgiris, besides several bridle-paths, were completed. The total expenditure of both circles was Rs. 20,743 compared with Rs. 9,479 in the previous year. On buildings in the Southern Circle Rs. 15,443 were spent and Rs. 14,461 in the Northern Circle, making a total of Rs. 29,904 compared with Rs. 23,036 in the previous year. The work done was apparently fairly satisfactory. In South Coimbatore two bungalows were built for the District Forest-officer and three rest-houses in North Coimbatore. In Cuddapah an inspection house and two Range-officers' houses were built, and the head-quarter bungalow at Anantapur completed and a rest-house at Kullar.

21. *Natural reproduction.*—The reports as regards natural reproduction are generally favorable. In the Northern Circle the growth in the Sandúr forests is reported good, and it is so almost everywhere except in the Anantapur forests where the Acting Conservator seems to think that the cutting of the grass may be the cause of the seedlings (*Hardwickia binata*) dying down. If so, it would be best to close certain areas altogether for a sufficient number of years to enable the seedlings to grow to a sufficient height not to need the covering. In the Southern Circle the results seem to be almost uniformly favorable, and the results of reservation are proving very encouraging. The Conservator reports that the following trees, *Anogeissus latifolia*, *Dalbergia latifolia* and *Pterocarpus marsupium* reproduce themselves plentifully by seedlings. The natural growth of the valuable timber *Pterocarpus santalinum* in Chingleput is again reported to be good.

22. *Artificial reproduction.*—The areas under regular plantations in the two circles were as follows:—

	ACS.	Cost of addition and maintenance. RS.
Northern Circle	6,423½	9,191
Southern do.	11,786	29,275
Total ...	18,209½	38,466

The areas practically do not differ from those given in last year's report. The areas under cultural operations were :—

—	1886-87.	1885-86.	Cost of addition made.
	ACS.	ACS.	RS.
Northern Circle	878½	751½	1,662
Southern do.	2,972½	2,536	3,634

In the Northern Circle the cyclone of the autumn of 1886 did considerable damage in Nellore, killing almost half a lakh of casuarina plants and some valuable iron wood seedlings. The mahogany plants also suffered. Palmyra seeds were planted in Cuddapah. A considerable number of blue gums were planted on the Nílgiris and the growth was good. Over 7,000 mahogany plants were put out in Kullar reserve and are reported to be doing well.

23. The casuarina plantations in Nellore are estimated to have cost Rs. 1,70,000 up to date and to have given an approximate return of Rs. 51,746. The return in the year was Rs. 18,455. The plantations on the Nílgiris show a surplus up to date of receipts over expenditure of Rs. 18,078 (not 18,058 as given in the report).

24. In the Southern Circle the management of the plantations showed greater economy to have been practised than in the previous year. In Nilambúr 123,787 teak, with 6,472 mahogany seedlings, were planted out during the year; 75,000 palmyra seeds were planted in Tinnevelly, and 23 acres were sown with *Acacia planifrons*. Insects are reported to have done much damage to the mahogany plants and the *Ficus elastica* on the West Coast. The work on the whole was successful.

25. *Topes.*—The Conservator, Northern Circle, is still unable to supply reliable information regarding the topes in his circle. The statement appended to the report shows their area as 12,654 acres and their number as 363. The reduction in the area compared with that given in the returns of the previous year is due to correction of figures made during the year. In the Southern Circle the number of topes at the end of the year was 1,284 and the area 18,909 acres. The figures relating to some of the districts were revised during the year. The correction of the returns is, however, not easy and must occupy a considerable time. The total expenditure on cultural operations, plantations and topes during the year was for the Southern Circle Rs. 40,830 and for the Northern Circle Rs. 23,890. The latter figure taken from Form No. 64 differs from the total of Forms Nos. 60 and 61, that total being Rs. 14,292. The Conservator should explain the difference. The total expenditure on the improvement of the forests was—

—	1883-84.	1884-85.	1885-86.	1886-87.
	RS.	RS.	RS.	RS.
Sowing and planting	65,326	70,423	63,244	64,721
Fire-protection	11,223	18,945	25,467	28,956
Other works	36,793	22,306	25,302	27,979
Total ...	1,13,342	1,11,674	1,14,013	1,21,656

26. Colonel Walker has misunderstood the Board's orders as regards the responsibility of village heads for the safe keeping of topes. The latter half of the Proceedings of the Board on the subject (Board's Proceedings, dated 15th April 1887, Forest No. 198), was as follows:—

"There is no objection to the topes alluded to (those established but not yet in bearing) being left under the general care of village officers, but the maintenance of the trees and fences must rest with the District Forest-officer and his subordinates, and as the Conservator suggests that they should be frequently inspected by the District Forest-officer and the Range-officers and reported on in the weekly diaries, the supervision should be constant and efficient. Where a village head is willing to undertake the responsibility of looking after the trees and fences of a tope for one rupee a month he may do so, but the duty is not to be forced on him."

It has never been part of the duty of village officers to look after topes in the sense meant by Colonel Walker. These officers have been held responsible for seeing that no acts of wanton mischief and theft occurred, but nothing more. The Conservator desired that they should be held responsible for the fences and the good condition of the young trees in all the topes situated within the village boundaries, which are often a considerable distance from the village, and it was to this that the Board raised objection.

27. *Exotics.*—The Conservator, Southern Circle, has appended to his report an interesting paper on the experiments tried with many exotic plants during the year. The experiments with the date-palm were fairly successful, 517 offsets having been put down. In Tanjore some Persian date-palms put down seven years go have borne fruit. The experiments with the mahogany plants continue to answer well. The rubber plants on the West Coast do not seem very successful, the sap yielded being in very small quantities. It is, however, as yet too early to speak positively on the subject. In the Northern Circle, mahogany seeds and date-palm offsets were put down. The date-palm offsets do not appear to have done well, and in Nellore only 100 plants germinated out of 500 which were put down. The Conifers and Australian Acacias on the Nílgiris did well. On the West Coast the valuable Ipecacuanha plants continue to thrive.

28. *Yield and working of the forests.*—It is still very difficult to compare the yield and working of two circles owing to the variety of measures used to give the outturn. The Conservators have used maunds, cubic feet and tons. Before the next reports are written the Conservators must agree to show each kind of produce according to some common denomination, that of cubic feet being used where possible. The figures given by the Northern Circle do not appear to have been carefully scrutinized, and in the remark column of Form 72 several differences between the timber returns and financial returns are noticed, but are not cleared up. Similar differences occur between the return 71 and the financial return 64. The amount of the sales and the actual revenue collected during the year under each of the budget sub-heads of I should be given in abstract at the close of Form No. 71 as is done in the case of the Southern Circle. The Conservator, Northern Circle, is requested to work out correct figures and submit them. Taking departmental operations first: In the Northern Circle 19,657 trees were felled compared with 8,157 in the Southern Circle. In the Northern Circle less timber was collected than in the previous year, the figures being for 1884-85 cubic feet 238,317, for 1885-86, 86,326 and for 1886-87, 52,530. This was due to reduced demand in Ganjam and want of elephants for work in the Godávari. In the Southern Circle the timber collected was considerably in excess of what was collected in the year before, the figures being—

	1885-86.	1886-87.
	C. FT.	C. FT.
Teak	83,713	105,797
Blackwood	5,730	19,613
Miscellaneous	57,660	51,522

The amount of fuel collected increased in both circles, the Northern Circle showing 1,202,092 cubic feet or about 24,000 tons compared with 12,251 tons in the Southern

Circle, the figures of the previous year being for the Northern Circle nearly 16,000 tons and the Southern Circle 10,113 tons.

29. With regard to the receipts and issues of timber and forest produce, the amount received in the depôt appears to have been about 16,049 tons and the amount issued about 11,687 tons. The quantity of timber received in the Northern Circle was less than in the previous year, but, on the other hand, the quantity of minor produce received increased very largely in both circles.

30. The sales from depôts and the forests showed a falling off in both circles, the total receipts being as follows :—

	1885-86.	1886-87.
	RS.	RS.
Northern Circle	1,60,687	1,36,867
Southern do.	2,01,994	1,35,177
Total ...	3,62,681	2,72,044

The falling off in the Northern Circle was in the sales of timber in Ganjam, and in the Southern Circle a large number of teak saplings were left unsold owing to a suspected combination among the dealers. There was also a falling off in the sandal-wood sales. In consequence of the falling off in the sales, the value of the stock in depôts was at the close of the year Rs. 90,018 compared with Rs. 26,632, the value of stock on hand at the commencement of the year. The South Indian and Madras Railways were supplied with 3,849 tons of wood from the Southern Circle during the year.

31. The amount actually realized from sales to persons who removed the timber and other produce from the forests themselves was Rs. 4,09,078 in the Northern Circle and Rs. 5,40,115 in the Southern Circle compared with Rs. 3,68,855 and Rs. 4,38,948, the corresponding figures for last year.

32. In Vizagapatam a large amount of firewood was granted free, probably some 5,000 cart-loads; in Cuddapah 185 tons of timber were given away to the ryots for house-building. In the Southern Circle not much timber was granted from the reserved forests, but, as pointed out by the Conservator, the greater portion of the wood required for domestic use is still obtained free from the unreserved lands.

33. *Financial.*—The following statement shows the financial results of the year's working :—

—	Revenue.	Expenditure.	
		A.	B.
	RS.	RS.	RS.
Northern Circle	5,52,248	2,20,443	2,14,523
Southern do.	6,94,535	3,80,192	3,40,529
Total ...	12,46,783	6,00,635 5,55,052	5,55,052
Total ...	...	11,55,687	
Balance ...	...	91,096	
Total ...	...	12,46,783	

The balance amounted to Rs. 1,17,282 in favor of the Northern Circle and Rs. 26,186 against the Southern Circle. The following statement shows the comparison between the expenditure under each main head in 1885-86 and 1886-87 :—

—	Charges.		
	1885-86.	1886-87.	Difference.
Northern Circle.	Rs.	Rs.	Rs.
A	1,88,930	2,20,443	+ 31,513
B	2,12,887	2,14,523	+ 1,636
Total ..	4,01,817	4,34,966	+ 33,149
Southern Circle.			
A	2,34,006	3,80,192	+ 1,46,186
B	3,00,608	3,40,529	+ 39,921
Total ...	5,34,614	7,20,721	+ 1,86,107

The following statement compares the receipts and charges of the two circles during the past six years :—

—	Receipts.	Charges.	Surplus.
	Rs.	Rs.	Rs.
1881-82	8,05,884	6,03,069	2,02,815
1882-83	9,03,914	6,36,558	2,67,356
1883-84	9,58,991	7,80,916	1,78,075
1884-85	11,62,689	8,84,421	2,78,268
1885-86	11,98,600	9,36,431	2,62,169
1886-87	12,46,783	11,55,687	91,096

The difference in the receipts of the Northern Circle compared with the actuals of the previous year resulted chiefly from reduced collection on account of timber due to slack timber trade in Ganjam, want of elephants in Godávari with which to get the timber out of the forests, and diminished sales of firewood and charcoal in Cuddapah. These were more than compensated for by increased receipts under the head Minor produce from Kistna, Bellary, Nellore and Anantapur, a greater revenue from sandalwood, sale of bamboos and grazing fees, the whole result being an increase of Rs. 5,966.

The increase in the receipts of the Southern Circle compared with the receipts of 1885-86 amounted to Rs. 42,217. The total decrease was Rs. 81,000 in Salem, Wynaad and Nilambúr. In Salem the decrease was due to smaller sales of sandalwood. In Malabar to reduced sales of timber, which also affected the revenue at Nilambúr. Trichinopoly, North Coimbatore, South Canara and Madura showed large increases of revenue.

34. The increased expenditure in the Northern Circle was due under A to large payments to a contractor in Kurnool for cutting and stacking fuel for the railway there, to increased expenditure on roads, and to heavy charges incurred on account of demarcation. In the Southern Circle the increased expenditure occurred, under A, under all heads. The revision of the Tekadi forest lease involved a payment of Rs. 75,000 to the Nambidi of Kolangód, in the absence of which the year would have closed

with a surplus balance in favor of the Southern Circle amounting to about Rs. 50,000. The Board regret to notice that the budget estimates proved so untrustworthy in both circles. It is difficult to frame accurate estimates in the cases of timber and sandal-wood sales, but greater care might certainly have been exercised in the working of the year in this respect. The Conservator, Southern Circle, asks the Board to impress upon Collectors and District Forest-officers their duties in this respect, but they observe that the two Conservators are the responsible officers for seeing that the District Forest-officers work properly up to their estimates, which are passed and submitted by the Conservators themselves, and for the carrying out of which they are immediately responsible. The District Forest-officers are no doubt much to blame in the matter, but if they are not constantly and carefully looked after by the two Conservators, the finances of the two circles will never be satisfactorily managed. Colonel Walker misunderstands his position in this respect.

35. *General Remarks.*—Upon the whole the working of the year was successful. The weak points in the department are the paucity of experienced and trained officers and the want of system in working the forests in some districts alluded to above. The conduct of the establishments was on the whole good, though the Conservator, Southern Circle, finds reason to complain of the want of thoroughness in the inspection of Range offices and depôts by District Forest-officers. The Northern Circle Conservator, Mr. Gamble, inspected during the year Godávari, Kistna, Cuddapah, Kurnool, Anantapur and the Nílgiris. His inspections were very thorough, and his inspection notes on Kistna and Kurnool and his note on the Nílgiri forests are full of interest. Colonel Walker inspected every district in his circle during the year. The District Forest-officers spent a sufficient portion of the year on tour, and as a rule showed great interest in their work. The year was not a healthy one and the superior and subordinate establishments suffered much from fever. The Board know nothing of the proposals referred to in the last paragraph of Colonel Walker's report, as no such proposals have been submitted to Government by him through them, and do not understand what obstacles he refers to, which, he says, prevent Forest-officers of all classes from devoting their whole time to their proper professional duties in the forests. The Board's attention has never been drawn to existence of any such obstacles, and they believe there is nothing in the present system which prevents any District Forest-officer from devoting his whole time and attention to his proper professional duties.

36. The Board regret the delay which has occurred in the submission of this review. The report of the Northern Conservator reached the Board in manuscript on the 12th August 1887 and the Southern Circle report, also in manuscript, reached the Board on 1st August 1887. Both Conservators asked that the proofs of the statements and reports should be sent to them for correction. The final proof from the Southern Circle reached the Board on the 27th September and from the Northern Circle on the 11th October. The Board fear that the statements of the Northern Circle must have been carelessly prepared at first and thus required considerable correction when in proof. From next year the Conservators should themselves print their reports before submission to the Board. The report of the Northern Circle contains many discrepancies, which should have been avoided. In Form No. 59 C, 3,840 acres are shown against Kottakota forest in Anantapur as transferred to 59 A, while in 59 A, 5,120 acres are shown. The difference should have been explained. Similarly in the case of Cuddapah 161,280 acres are shown as transferred to 59 A against Seshachellam and Rollamadugu, but in 59 A apparently only 128,000 are shown. In the fire-protection area statements similar unexplained discrepancies occur. Thus in Cuddapah 202,116 acres are shown as having been attempted to be protected and 154,583 acres saved, while according to Form No. 62 the area attempted was acres 200,668 and saved 153,189. There are also discrepancies between the figures given in Form No. 69 and those in Form No. 71. Thus in Bellary (Form No. 69) 2,533 tons of firewood are entered as sold, while in Form No. 71 they are shown as 1,657, and the difference is unexplained. All these differences should have been noted and explanations given. There are also other

similar discrepancies which show that insufficient attention has been paid to the drafting of the report.

(True Copies and Extract.)

(Signed) R. S. BENSON,
for Acting Secretary.

To the Secretary to Government, Revenue Department,
with two reports and a map (to be returned).

Copy to the Conservator of Forests, Southern Circle.
" " " Northern "
" to all Collectors.
" to the Examiner of Forest Accounts.

ORDER—dated 16th January 1888, No. 51, Revenue.

Forest, No. 6.

His Excellency the Governor in Council notices with satisfaction that the Board of Revenue have submitted the Forest Administration Report for 1886-87, together with their review thereof, at a much earlier date than that for the previous year. It was, however, still more than two months late, and it is observed that although the Board's Resolution is dated 26th October, it did not reach Government until the 21st November, although the whole of the report itself was already in print. The delay in the despatch of the Conservators' reports is ascribed to the want of punctuality in the submission of the district reports. The worst offender in this respect was the District Forest-officer of Nellore, and the Collector should be called upon for an explanation. It appears from paragraph 3 of Colonel Walker's letter, that there has again been great delay in the distribution of last year's report to District officers. The Government desire to be informed of the causes of this.

The reports of both Conservators are shorter than those for the previous year, but it seems to the Government that Mr. Peet has sacrificed rather too much to brevity by the omission of all criticism. Mr. Peet was not in charge of the circle during the year to which his report relates, and he may perhaps have felt diffidence in offering remarks upon the work of its officers.

2. *Reservation.*—The following statement exhibits, in the form required by the Government of India, the changes that took place during the year in the areas of the various classes of State forests:—

Class of forests.	Area on 31st March 1886.	Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1887.	Source or cause of Increase or Decrease.
I. Southern Circle.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	
A. Reserved forest, under Act V.	1,526	313	1	+ 312	1,838	313 square miles from D; 1 square mile due to rectification of area by actual survey.
B. Reserved forests under previous rules.	307	1	28	— 27	280	27 square miles to D, 1 square mile to F. Addition of 1 square mile probably due to rectification of area.
C. Leased forests ..	49	..	..	..	49	
D. Reserved lands ..	3,503	477	325	+ 152	3,655	27 square miles from B, 391 from F, 42 from E; due to correction 17 square miles. 313 to A, 10 to F, and 2 square miles due to rectification of areas.
E. Other forests	1,126	21	48	— 27	1,099	Addition of 21 square miles due to correction of areas; 42 square miles to D and 6 square miles due to correction of area.
F. Unclassed forests and waste lands.	..	..	..	..	..	
	6,511	812	402	+ 410	6,921	

Class of forests.	Area on 31st March 1886.	Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1887.	Source or cause of Increase or Decrease.
II. Northern Circle.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	
A. Reserved Forests under Act V.	102	372	..	+ 372	474	15 square miles from B, 328 from D and 29 from F.
B. Reserved forests under previous rules.	802	..	15	— 15	787	15 square miles to A.
C. Leased forests ..	198	..	..	..	198	
D. Reserved lands ..	3,557	608	328	+ 280	3,837	328 square miles to A, 608 from F.
E. Other forests	..	..	..	..	..	
F. Unclassed forests and waste lands.	..	..	..	..	..	29 square miles to A and 608 to D.
Total ..	4,659	980	343	+ 637	5,296	
Grand Total ..	11,170	1,792	745	+ 1,047	12,217	

As no particulars of the area of leased forests in the Southern Circle are contained in the report, the figure given for last year has been adopted. The Board should state whether this is correct, or whether these forests are included under some other head. It will be seen that the total area under the control of the Forest Department has increased by 1,047 square miles and amounted to 12,217 square miles on the 31st March last. Of the increase, 1,017 square miles were newly added from waste lands, the remaining 30 square miles being due to rectifications of areas. The advance in the area of reserved forests amounted to 685 square miles, which is 176 square miles greater than the increase in the previous year. The Government are glad to find that the work of reservation is making better progress in the Northern Circle, but there is still much to be done, the area under settlement at the end of the year being 6,240½ square miles in the Northern and 1744·12 square miles in the Southern Circle, or 7,985 square miles altogether. Settlement, however, seems on the whole to have made good advance and the area of reserved forests at the close of the present year will probably show a large increase. The attention of the Collectors of Ganjam and Anantapur will be called to the remarks in paragraph 10 of the report for the Northern Circle. The slow progress in the latter district is said to be due to the Settlement officers having other duties in the Revenue Department to perform. The Government cannot accept this excuse, and they desire that the Board will call upon the Collector to make a special report upon the progress of the work and to forward the explanation of the officers who are responsible for the delay.

Reserved Lands.—The area of reserved lands at the close of the year was 3,837 square miles in the Northern Circle and 3,655 in the Southern. Much of this is simply in a transition stage and will eventually be converted into reserved forest. The Government have not yet finally determined whether it is advisable to retain reserved lands as a separate class of forest.

The question of the future policy with regard to *Village Forests* is also still under consideration, the delay in the settlement of this important matter being due to the non-receipt of information which Mr. Brougham was directed to furnish so far back as May last.

3. Including areas notified under section 4, but which the Conservator of the Northern Circle has failed to include in reserved lands, the total area under the control of the Forest Department is 14,020 square miles * and His Excellency the Governor in Council is of opinion that the question of the further extension of this may now conveniently be considered. The annexed statement shows the total area of each district, that of Government lands, cultivated and uncultivated, and that of existing and proposed reserved forests and reserved lands. The percentages of the area of the last-mentioned lands to the total of that belonging to Government and to so much of this area as is uncultivated are given in columns 9 and 10. It should be explained that the figures entered in column 6 are Government lands,

* This does not include the 49 square miles of leased forests in the Southern Circle as no particulars of the situation of these are given.

Districts.	Total area excluding feudatory and tributary States.	Area excluding zemindaries and whole inam villages.	Cultivated area.	Remainder.			Forests under the control of the Forest Department.	Percentage of col. 8 to col. 3.	Percentage of col. 8 to col. 7.
				Uncultivated and Forest.	Area for which returns are not available.	Total of cols. 5 and 6.			
1	2	3	4	5	6	7	8	9	10
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjam (*)	8,369	2,256	573	380	1,303	1,683	704	31·2	41·8
Vizagapatam (†)	16,992	1,864	186	110	1,568	1,678	8	·4	·5
Godávari	7,774	3,606	1,452	1,471	683	2,154	647	17·9	30·0
Kistna	8,471	5,572	2,977	2,426	169	2,595	690	12·4	26·6
Nellore	8,739	3,787	1,509	2,131	147	2,278	479	12·7	21·0
Cuddapah	8,722	7,527	1,884	5,643	...	5,643	2,068	27·5	36·6
Anantapur	5,564	4,383	1,652	2,267	464	2,731	171	3·9	6·3
Bellary	5,441	4,158	2,137	2,021	...	2,021	261	6·3	12·9
Kurnool	7,541	5,994	1,796	4,190	8	4,198	1,677	28·0	39·9
Chingleput	2,840	2,051	926	1,125	...	1,125	126	6·1	11·2
North Arcot	7,503	3,768	1,230	2,538	...	2,538	819	21·7	32·2
South Arcot	5,093	4,811	2,064	2,570	177	2,747	1,068	22·2	38·9
Tanjore	3,595	2,344	1,674	670	...	670	22	·9	3·3
Trichinopoly	3,641	2,530	1,624	906	...	906	200	7·9	22·1
Madura	8,799	3,192	1,471	1,132	589	1,721	649	20·3	37·7
Tinnevelly	5,403	3,488	2,232	1,256	...	1,256	621	17·8	49·4
Coimbatore	7,804	7,120	3,644	2,429	1,047	3,476	1,694	23·8	48·7
Nílgiris	957	957	225	732	...	732	444	46·4	60·6
Salem	7,724	5,543	1,915	3,628	...	3,628	887	16·0	24·4
South Canara	3,902	3,882	620	3,262	...	3,262	109	2·8	3·3
Malabar	5,765	5,742	1,349	4,393	...	4,393	676	11·8	15·4
Total ...	1,40,639	84,575	33,140	45,280	6,155	51,435	14,020	16·6	27·2

(*) The figures for the Northern Circle are taken from the map which accompanies the report.
(†) Neither the map nor the report show any forests in Vizagapatam; the 8 square miles entered in this statement is the area of the proposed reserve in the Sarvasiddhi taluk.

and as particulars are not available, the greater part of these must be uncultivated. It will be observed that the percentages of forest in different districts show wide divergences, ranging, as they do, from 0·5 in Vizagapatam to 60·6 in the Nílgiris. There are, of course, local peculiarities which must be taken into consideration, but, *primâ facie*, the Government consider that these statistics show that, in many districts, a further increase in the area under the control of the Forest Department is clearly necessary. The Board should, therefore, call upon each Collector to make a special report on the requirements of his district and to submit proposals for bringing a reasonable though not excessive extent of the waste land which it comprises under control. These reports should be forwarded through the Conservator concerned, and each should be separately reviewed by the Board and submitted for the orders of Government.

4. *Demarcation.*—The amount of demarcation done during the year shows an improvement upon the results of previous years, and His Excellency the Governor in Council trusts that this important work will now be pushed on with energy. In future reports, a statement of the work already completed, as well as of that remaining to be done, so far as this is possible, should be given, in compliance with the request of the Government of India communicated in G.O., dated 1st August 1887, No. 741, Revenue. The total expenditure on demarcation amounted to Rs. 28,306 as compared with Rs. 22,788 in 1885-86 and Rs. 23,063 in 1884-85. In the Northern Circle, the budget allotment was exceeded, but in the Southern Circle the expenditure was only Rs. 8,761, although the revised estimate was fixed at Rs. 19,027. No explanation of this difference between the actuals and the forecast is offered. The Government agree with the Board in thinking that there is no reason why the average rates for demarcation in each circle, as a whole, should differ so widely as they do, and the Conservator of the Northern Circle should institute inquiries with the object of ascertaining whether the cost in the districts under his charge is not unduly high. In Anantapur, stone walls were built as boundary lines at a cost of about Rs. 100 per mile. The Government cannot but think that such an expensive method of demarcation was altogether unnecessary.

5. *Survey.*—Very little progress was made with survey during the year owing, for the most part, to the want of proper establishment. The Government are of opinion that this important work will never be systematically dealt with until a special Forest Survey Party is organised. The difficulty is, as pointed out by Colonel Walker, to spare an officer to take charge of such a party, but His Excellency in Council is about to make proposals to the Government of India for strengthening the superior staff of the department, and if these are acceded to, it will be possible to depute an officer for forest surveys. The Conservator, Southern Circle, should ascertain and report, at an early date, what advance has been made during the current year with the forest surveys undertaken by the Madras Party of the Survey of India.

6. *Working Plans.*—As the preparation of a working plan presupposes a survey, much progress was not to be expected. Some good work, however, was done in the Southern Circle, and Mr. Gamble drew up an exhaustive note on the working of the forests in the Nílgiri district. The revised estimate of the charges on account of surveys and working plans was Rs. 7,430, but the actual expenditure amounted to only Rs. 3,527.* Neither Conservator offers any explanation of this failure to work up to the allotment.

	Northern Circle.	Southern Circle.
	RS.	RS.
* Revised Estimate	1,400	6,030
Actuals	800	2,727

7. *Fire Protection.*—The area under fire protection shows a considerable advance, as will appear from the following table :—

—	1884-85.	1885-86.	1886-87.
	SQ. MILES.	SQ. MILES.	SQ. MILES.
Northern Circle	720	728	1,168
Southern „	744	906	1,081†
Total ...	1,464	1,634	2,249

† Also 16 miles of boundary line in Tinnevelly.

The increase in the Northern Circle occurs chiefly in the Nílgiris, Bellary and Godávari; in the last district special protection was attempted for the first time. In the Southern Circle, the increase was due to additional areas having been brought under protection in North Arcot, Madura, Tinnevelly and South Canara. The Conservator, Southern Circle, does not state how much of the area under protection was guarded by the ordinary staff and how much by special watchers. The percentage of the area attempted, which was successfully protected, is given below for each of the past three years:—

—	1884-85.	1885-86.	1886-87.
Northern Circle	97	96	87
Southern do.	98	98	96

The percentage fell very considerably in the Northern Circle and the explanations given are inadequate. The Conservator merely recapitulates the excuses offered by the District officers, and in some cases, not even excuses are given. It is his duty to criticise the reasons that have been alleged, and to state whether, in his opinion, the local officers are to blame or not. Colonel Campbell Walker has done this, and it seems a reasonable inference that the stricter supervision which appears to be exercised by the Southern Conservator accounts, in a great measure, for the better results obtained in his circle. In the Northern Circle the expenditure under this head amounted to Rs. 12,133 out of an allotment of Rs. 13,300. In the Southern Circle the actual charges and the revised estimate were Rs. 16,823 and Rs. 20,890, respectively. In Code form No. 62, however, the charges are shown as Rs. 16,811 for the Southern Circle and Rs. 11,868 for the Northern.

8. *Grazing.*—The views of the Board on this subject, as expressed in paragraph 18 of their resolution, have the entire concurrence of His Excellency the Governor in Council, who would only add that it seems advisable to extend the practice of allowing the removal of grass in the case of forest lands where the entry of cattle would be likely to cause considerable damage. At first, grass should be given free of charge, but when the practice has become well established, a small fee might be imposed. So far as is possible, a reasonable amount of pasture land will always be left for the free grazing of cattle actually required for agricultural or domestic purposes, but the Government do not consider that the State is under any obligation to provide free pasturage for surplus animals. It must not be forgotten, however, that while this is the ultimate aim of the policy of Government they deprecate a hasty advance towards it. All that is required is to keep it constantly in view, and to maintain a steady but cautious progress.

9. *Prosecutions.*—The number of forest offences reported in each of the past three years is shown below:—

—	1884-85.	1885-86.	1886-87.
Northern Circle	757	848	994
Southern do.	1,007	1,154	1,339
Total ...	1,764	2,002	2,333

In the Southern Circle, 460 cases were compounded and 111 in the Northern. The Government are of opinion that this power of compounding might be more freely used in the latter circle. It is observed that it can be exercised only by officers of, or above, the grade of Sub-Assistant Conservator.

The percentage of the cases brought to trial, which resulted in convictions, was 64·54 in the Northern and 70·25 in the Southern Circle. The percentage was very low

in Nellore (34·7), but the Government agree with the Board in considering the results to be on the whole satisfactory.

10. *Natural Reproduction.*—The district reports continue to show that protection has an excellent effect on natural reproduction. A noteworthy instance is to be found in certain reserves in South Coimbatore, where the results had previously been far from promising. It was thought last year that it would be necessary to admit cattle to these forests in order to graze down the coarse elephant grass which seemed to be choking the seedlings. These, however, have now pushed their way through and are promising well. It seems very desirable to extend the same rigorous measures of protection to the Todagan valley hills in the Bolampatti range. It is reported from Anantapur that the seedlings spring up every year but die down in the hot weather, and the cutting of the grass may be the cause of this. The experiment of closing a few areas should be tried and, in the remainder, care should be taken that the removal of grass is not excessive.

11. *Artificial Reproduction.*—The areas of regular plantations at the end of 1885-86 and 1886-87 were as follow :—

	31st March 1886.	31st March 1887.
	ACS.	ACS.
Northern Circle	6,426	6,423½
Southern do.	12,234	11,786

The decrease in the Southern Circle was compounded of an increase of 239 acres and a decrease of 687 acres, which was due partly to rectification of areas (192 acres), partly to transfer to topes and partly to the abandonment of 252 acres. The total expenditure during the year on plantations, cultural operations and topes was Rs. 23,890 in the Northern Circle, Rs. 40,831 in the Southern ; the revised allotments being Rs. 19,500 and Rs. 48,150, respectively.

The Government concur in the views of the Board as to the duties of village heads in connection with topes.

12 *Exotics.*—The experiments with the Arabian date, *Phœnix dactylifera*, were successful in every district in the plains in which they were conducted except Nellore; but out of one pound of seed sown at Coonoor, not one germinated. The Government are disposed to think that the successful cultivation of this valuable palm in this Presidency is now placed beyond the region of experiment, and that extended operations may be undertaken without further delay. The matter should be specially noted in the next annual report. Colonel Campbell Walker has printed his report on exotics as an appendix. This arrangement is, for many reasons, convenient and should be adopted by both Conservators in future. It would also be well to have a number of copies of these appendices struck off separately for communication to planters and commercial associations. It is observed that beetles and other insects were destructive in several districts. Specimens should be sent to the Superintendent of the Government Central Museum who may be able to suggest measures for stamping out such pests.

13. *Communications and Buildings.*—The following table shows the revised estimate and the actual expenditure under this head :—

—	Revised estimate.	Actuals.	Unexpended balance.
	RS.	RS.	RS.
Northern Circle	36,500	25,729	10,771
Southern do.	41,811	25,990	15,821
Total ...	78,311	51,719	26,592

The Conservator, Northern Circle, offers no explanation of the non-expenditure of so large a portion of the allotment. In the case of the Southern Circle, it is ascribed to (1) "the attention of District and Range officers having been almost entirely absorbed in the selection, settlement and demarcation of reserved forests, (2) the

constant change of subordinates in Wynaad, and (3) the non-acquisition of the proposed site for the Forest officer's bungalow at Nilambúr." The Government do not consider the first explanation at all satisfactory. If it was impossible for District officers to spare any time for such important works as roads and buildings—which seems highly improbable—this should have been foreseen when the budget was prepared. The divergence between the estimate and the actuals was noticeably great in Madura and South Arcot, and the attention of the Collectors of those districts should be drawn to the matter. A considerable amount of work appears to have been done in Tinnevelly and South Coimbatore, where nearly the whole of the allotments were utilised.

14. *Yield and working of Forests.*—In the Northern Circle, there was a further decrease in the quantity of timber removed by Government agency, but an increase in the quantity of fuel, bamboos, minor produce and sandalwood. The discrepancies noticed by the Board render any further comparison of the working during 1886-87 with that of previous years useless. The Collector of Vizagapatam should be directed to explain his action in sanctioning free grants so extensively as he did. In the Southern Circle, there was a considerable increase in the quantity of timber removed departmentally, but a great falling off in that of bamboos. The quantity of timber sold during the year was, however, much lower than in 1885-86, the receipts being only Rs. 61,190 as against Rs. 1,34,682. It is observed that the former figure differs from that given in form No. 6-A, the latter including outstandings of previous years realized during the year. The quantity of timber removed by purchasers was about 200,000 cubic feet higher than in 1885-86, and the increase in receipts on this account amounted to Rs. 27,353. The advance in receipts under the two following heads was also high :—

	1885-86.	1886-87.
	RS.	RS.
II (*d*), Grazing and fodder grass	7,914	35,665
II (*e*), Other minor produce	1,35,443	1,71,038

15. *Financial Results.*—His Excellency the Governor in Council has already dealt with this subject in the review of the budget for 1888-89, and he has now little to add to the remarks of the Board. He considers, however, that it is desirable to point out that the Collector, who is the executive head of the Forest Department in his district, cannot be divested of the responsibility for its efficient working. It is his duty to supervise the work of the District Forest-officer, equally with that of any of his other assistants, and this supervision is especially needed where the Forest officer is a young man of but little experience. If then the Collector finds that work is not progressing in accordance with the annual plan of operations, or the provisions made in the estimates, he should at once call upon the District Forest-officer for an explanation, and should then issue such orders as he may consider necessary. If a change in the plan of operations is deemed advisable, on professional grounds, the Collector must first consult the Conservator, whose best advice, the Government have no doubt, will always be at the service of Collectors. The Conservators' responsibility is somewhat similar to that of Collectors, and the Government and the Board must leave to those officers the duty of seeing that the estimates are being properly worked up to. That there is room for improvement in their performance of this duty is clearly shown by the following table :—

Year.	Receipts.		Charges.	
	Revised estimate.	Actuals.	Revised estimate.	Actuals.
	RS.	RS.	RS.	RS.
1883-84	9,31,000	9,58,991	8,45,000	7,80,916
1884-85	11,33,000	11,62,689	10,02,000	8,84,421
1885-86	12,22,000	11,98,600	10,23,000	9,36,431
1886-87	14,02,500	12 46,783	12,03,300	11,55,687

It is true that the Conservators must depend much upon the estimates framed in the districts, but the local knowledge acquired by them in their tours should enable them to decide whether the estimates of receipts are reasonable or not, and if they exercised a careful and constant supervision over the expenditure of allotments, the amount of the grants which now so constantly lapse would undoubtedly be largely decreased. The Government trust that, now that attention has been prominently drawn to the matter, these excessive divergences between estimates and actuals will not recur.

16. *General Remarks.*—The superior officers appear generally to have worked well during the year. The year seems to have been an unhealthy one, especially in the Southern Circle, where three Rangers and three Foresters died. The touring of District officers was sufficient in all cases and in many very good. Colonel Campbell Walker inspected all the districts in his circle, but Mr. Gamble was in camp for only about ninety days and several of his districts were unvisited. The means of communication are, however, inferior in the Northern Circle. The Government notice that the orders requiring service books to be kept up to date do not appear to have been complied with in all districts. Attention should be drawn to this point as the omission to keep a careful contemporary record of services frequently causes delay in the grant of pensions, and this entails considerable hardship, especially in the case of inferior servants.

17. His Excellency the Governor in Council considers that, on the whole, good progress has been made during the past year, and agrees with the Board in regarding the work of the department as satisfactory.

(True Extract.)

(Signed) H. A. STUART,
Under Secretary to Government.

00134080

Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020